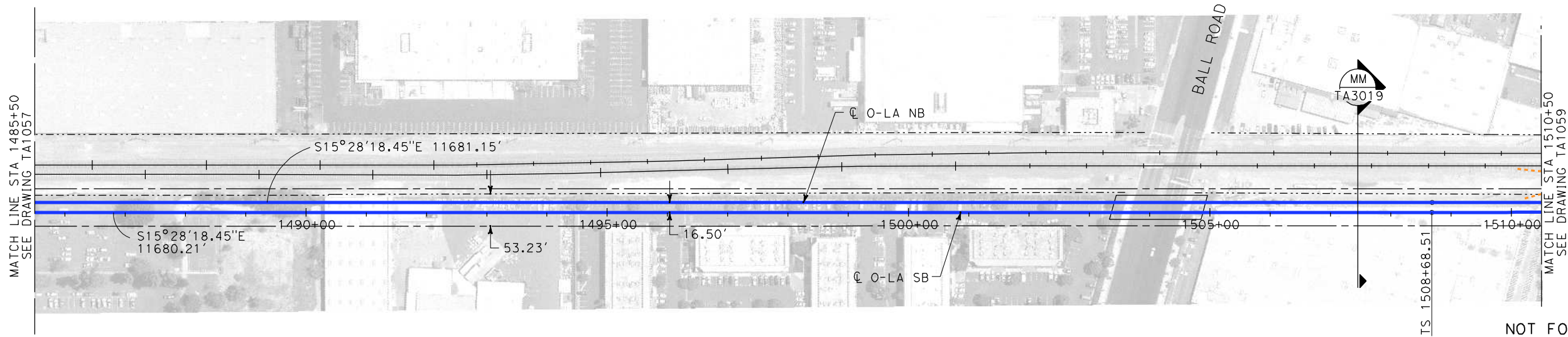


12/22/2009 11:19:30 AM I:\projects\4013179\4013179_0001\Drawings\TRA\DLV\Plan-Profile\LO-TA-1058.dgn

SPERRY

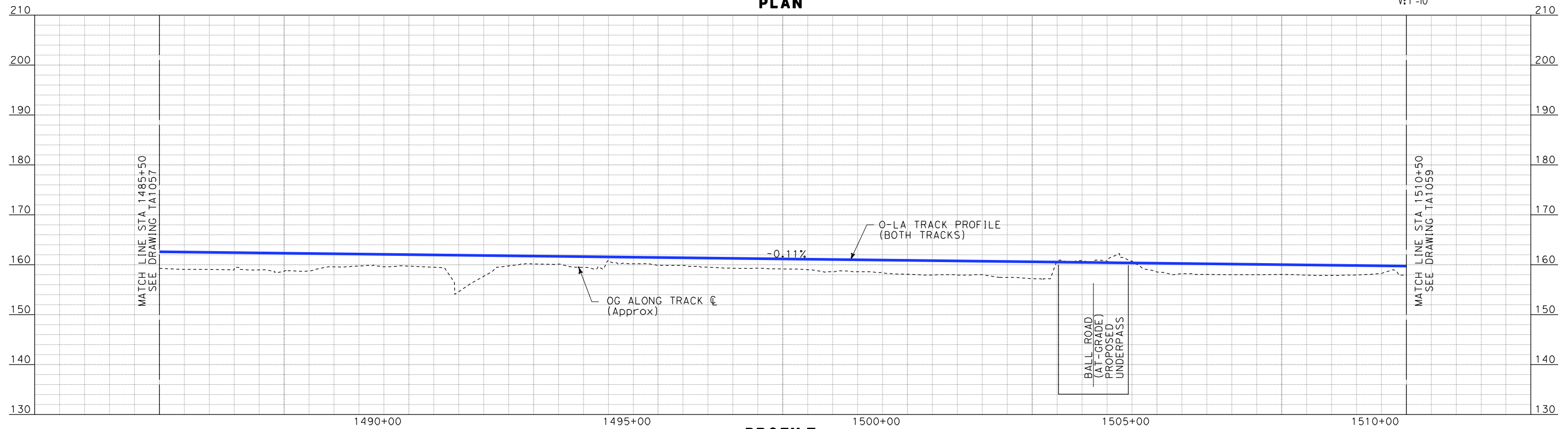


NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

100 0 100 200
H: 1"=100'

10 0 10 20
V: 1"=10'

PLAN



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09



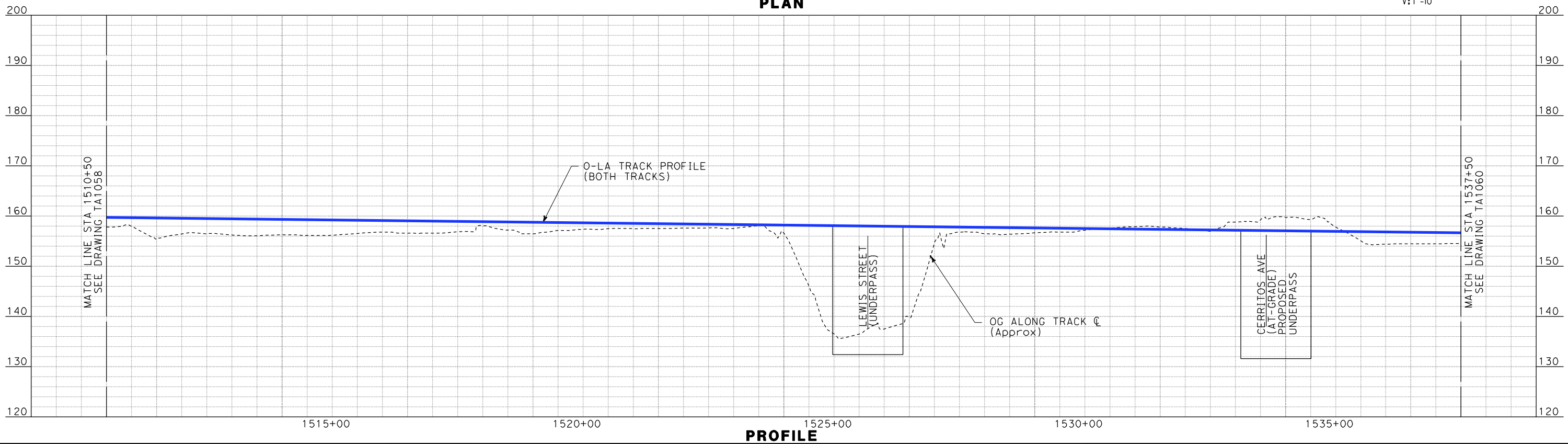
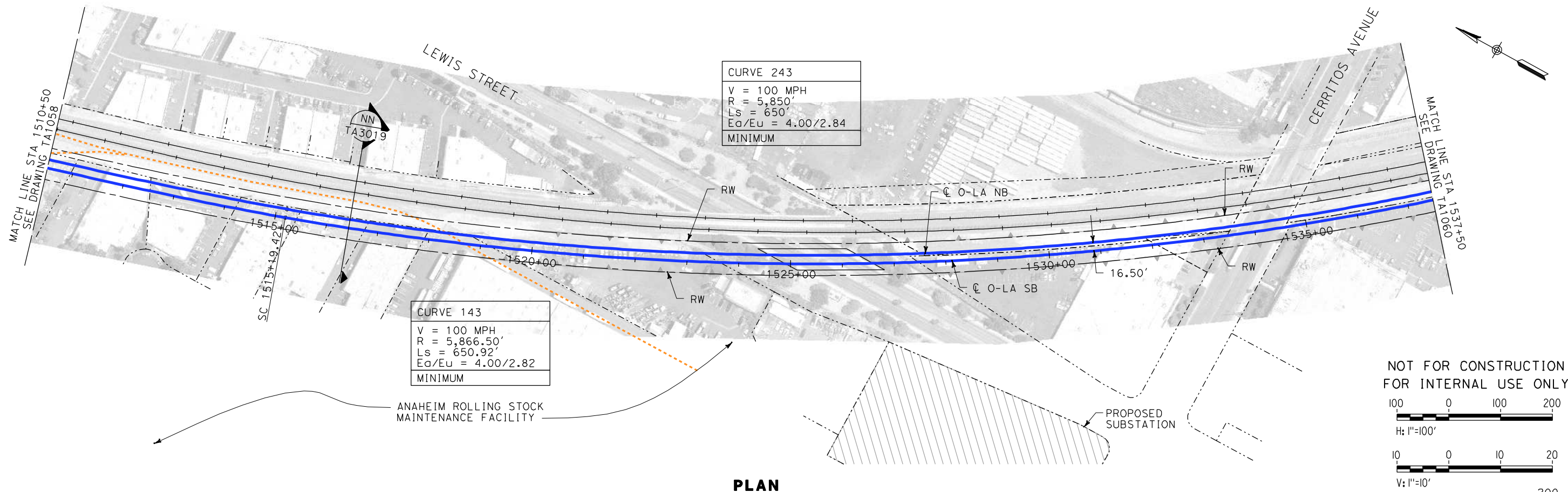
CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 1485+50 TO STA 1510+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1058
SCALE AS SHOWN
SHEET NO.

12/22/2009 11:19:50 AM I:\projects\4013179\4013179_0001\Drawings\TRA\DLV\Plan-Profile\LO-TA-1059.dgn

SPERRY



REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09



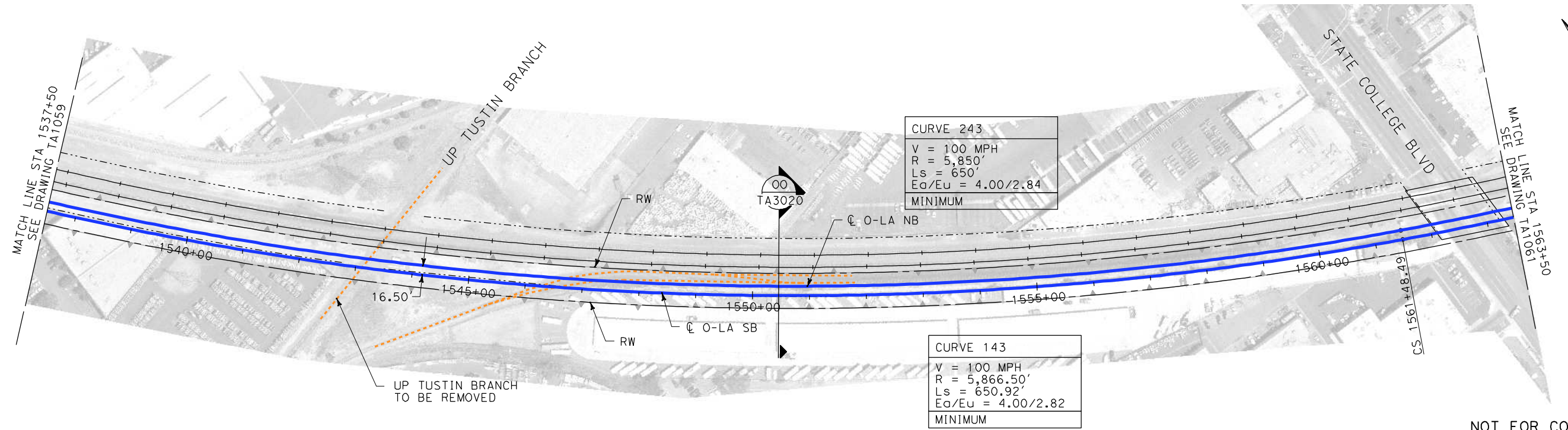
STV Incorporated
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
Without ever leaving the ground.

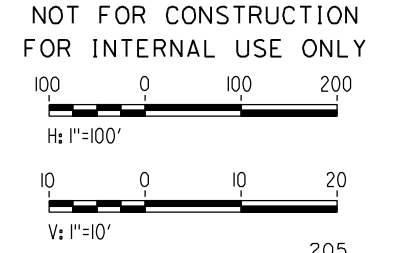
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**
BASELINE ALIGNMENT
PLAN AND PROFILE
STA 1510+50 TO STA 1537+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1059
SCALE AS SHOWN
SHEET NO.

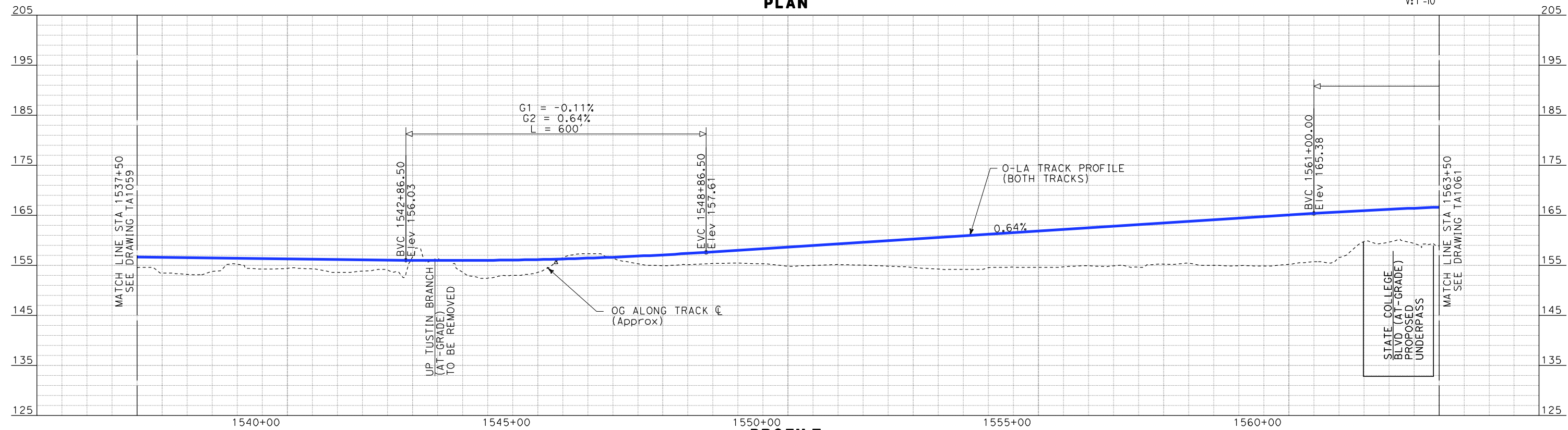


CURVE 243
V = 100 MPH
R = 5,850'
Ls = 650'
Ea/Eu = 4.00/2.84
MINIMUM

CURVE 143
V = 100 MPH
R = 5,866.50'
Ls = 650.92'
Ea/Eu = 4.00/2.82
MINIMUM



PLAN

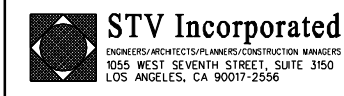


PROFILE

12/22/2009 11:20:08 AM I:\projects\4013179\4013179_0001\Drawings\TRA\DLV\Plan-Profile\LO-TA-1060.dgn

REV	DATE	BY	SUB	APP	DESCRIPTION

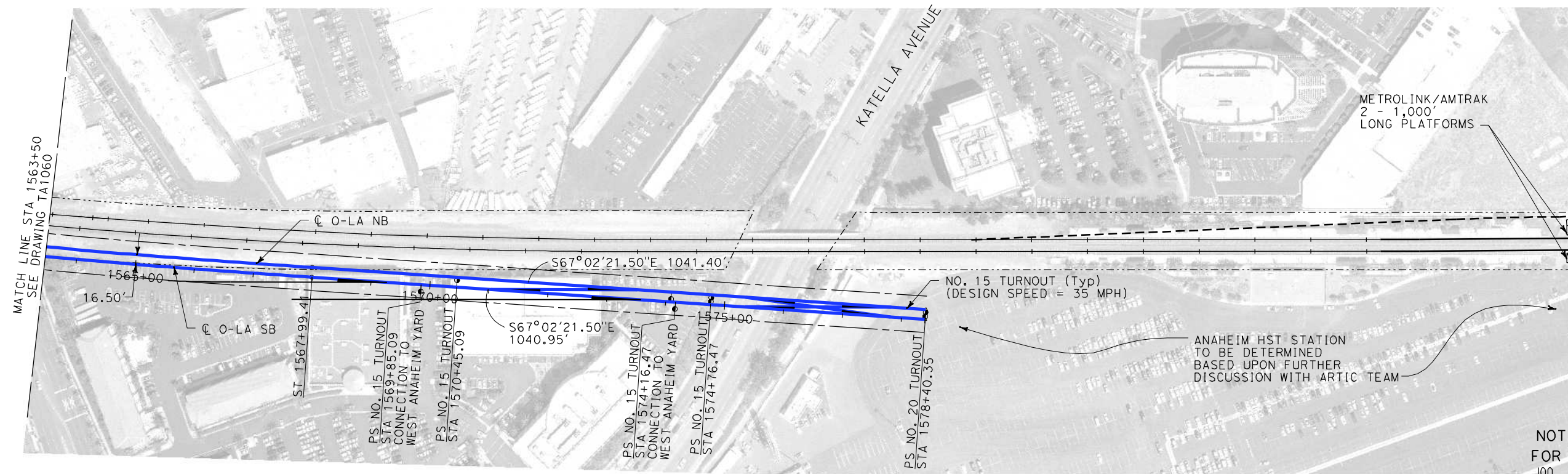
DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09



CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 1537+50 TO STA 1563+50

CONTRACT NO. HSR06-0005
DRAWING NO. TA1060
SCALE AS SHOWN
SHEET NO.

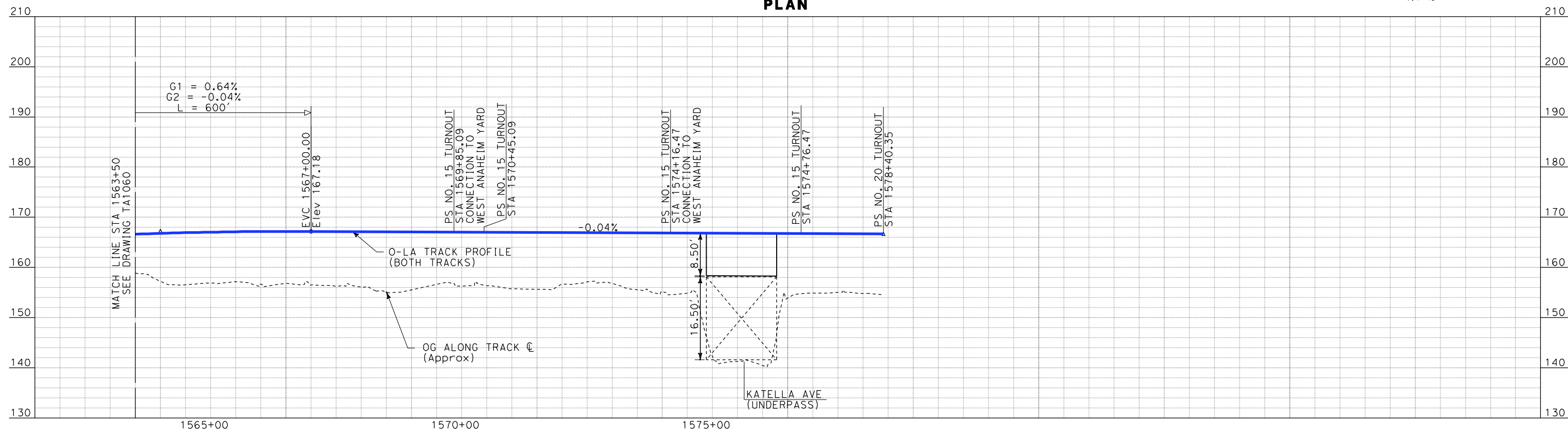


NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

100 0 100 200
H: 1"=100'

10 0 10 20
V: 1"=10'

PLAN



PROFILE

12/22/2009 11:20:28 AM I:\projects\4013179\4013179_0001\Drawings\TRA\DLV\Plan-Profile\LO-TA-1061.dgn

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09



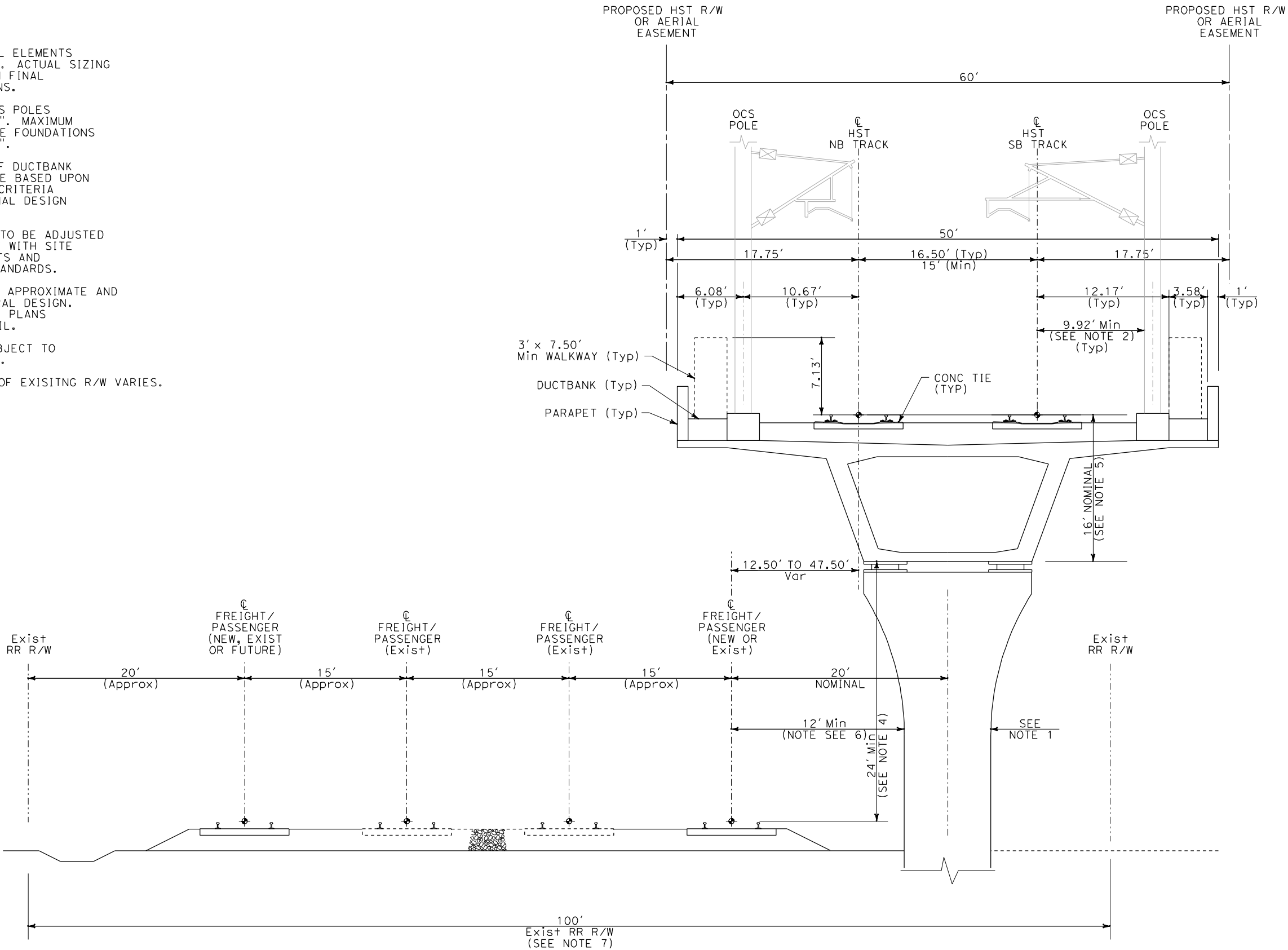
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**
BASELINE ALIGNMENT

PLAN AND PROFILE
STA 1563+50 TO STA 1578+40.35

CONTRACT NO. HSR06-0005
DRAWING NO. TA1061
SCALE AS SHOWN
SHEET NO.

12/21/2009 4:52:23 PM i:\projects\4013179\4013179_0001\drawings\travdiv\typicals\LO-TA-3001.dgn

- NOTES:
1. SIZING OF STRUCTURAL ELEMENTS SHOWN IS CONCEPTUAL. ACTUAL SIZING MAY VARY BASED UPON FINAL DESIGN CONSIDERATIONS.
 2. MAXIMUM WIDTH OF OCS POLES IS ASSUMED TO BE 18". MAXIMUM DIAMETER OF OCS POLE FOUNDATIONS IS ASSUMED TO BE 36".
 3. LOCATION AND SIZE OF DUCTBANK IS SUBJECT TO CHANGE BASED UPON FORTHCOMING DESIGN CRITERIA REQUIREMENTS, OR FINAL DESIGN CONSIDERATIONS.
 4. VERTICAL CLEARANCE TO BE ADJUSTED AS NEEDED TO COMPLY WITH SITE SPECIFIC REQUIREMENTS AND GOVERNING AGENCY STANDARDS.
 5. STRUCTURAL DEPTH IS APPROXIMATE AND SUBJECT TO STRUCTURAL DESIGN. REFER TO STRUCTURAL PLANS FOR ADDITIONAL DETAIL.
 6. MINIMUM DISTANCE SUBJECT TO AGREEMENT WITH BNSF.
 7. WIDTH AND LOCATION OF EXISTING R/W VARIES.



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

5 0 5 10
1"=5'

REV	DATE	BY	SUB	APP	DESCRIPTION

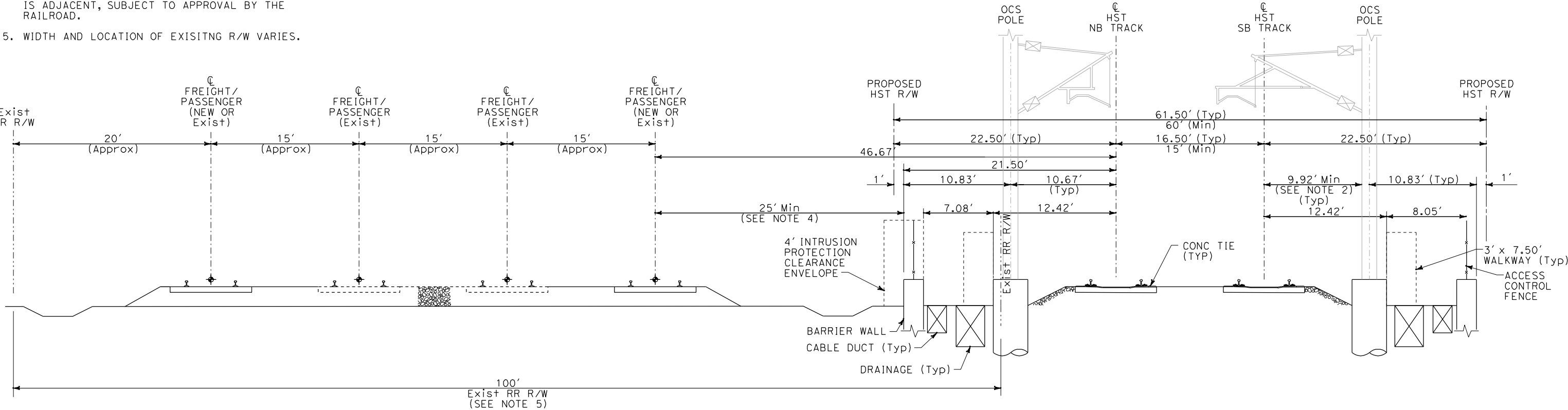
DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09



CALIFORNIA HIGH-SPEED TRAIN PROJECT ORANGE COUNTY TO LOS ANGELES		CONTRACT NO. HSR06-0005
TYPICAL CROSS SECTION ADJACENT TO BNSF SAN BERNARDINO SUB AERIAL VIADUCT		DRAWING NO. TA3001
SCALE 1" = 5'		SHEET NO.

NOTES:

1. SIZING OF BARRIER WALL SHOWN IS CONCEPTUAL. ACTUAL SIZING MAY VARY BASED UPON FINAL DESIGN CONSIDERATIONS.
2. MAXIMUM WIDTH OF OCS POLES IS ASSUMED TO BE 18". MAXIMUM DIAMETER OF OCS POLE FOUNDATIONS IS ASSUMED TO BE 36".
3. CONCRETE DRAINAGE CHANNEL AND DUCTBANK ARE SHOWN AT REPRESENTATIVE SIZE AND LOCATIONS, AND ARE SUBJECT TO RELOCATION/RECONFIGURATION BASED UPON FORTHCOMING DESIGN CRITERIA REQUIREMENTS, OR FINAL DESIGN CONSIDERATIONS.
4. THE 25' MINIMUM DIMENSIONS FROM C OF EXIST FREIGHT TRACK TO THE HST BARRIER WALL IS TYPICAL WHERE THE FREIGHT TRACK IS A MAIN LINE TRACK. THIS DIMENSION MAY BE REDUCED WHERE NON-MAINLINE TRACK IS ADJACENT, SUBJECT TO APPROVAL BY THE RAILROAD.
5. WIDTH AND LOCATION OF EXISITNG R/W VARIES.



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY



12/21/2009 4:52:24 PM i:\projects\4013179\4013179_0001\drawings\travdiv\typical\LO-TA-3002.dgn

SPERRY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY	K. MCCULLOUGH
DRAWN BY	K. MCCULLOUGH
CHECKED BY	A. SOKOL
IN CHARGE	D. THOMSON
DATE	12-22-09



STV Incorporated
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
Without ever leaving the ground.

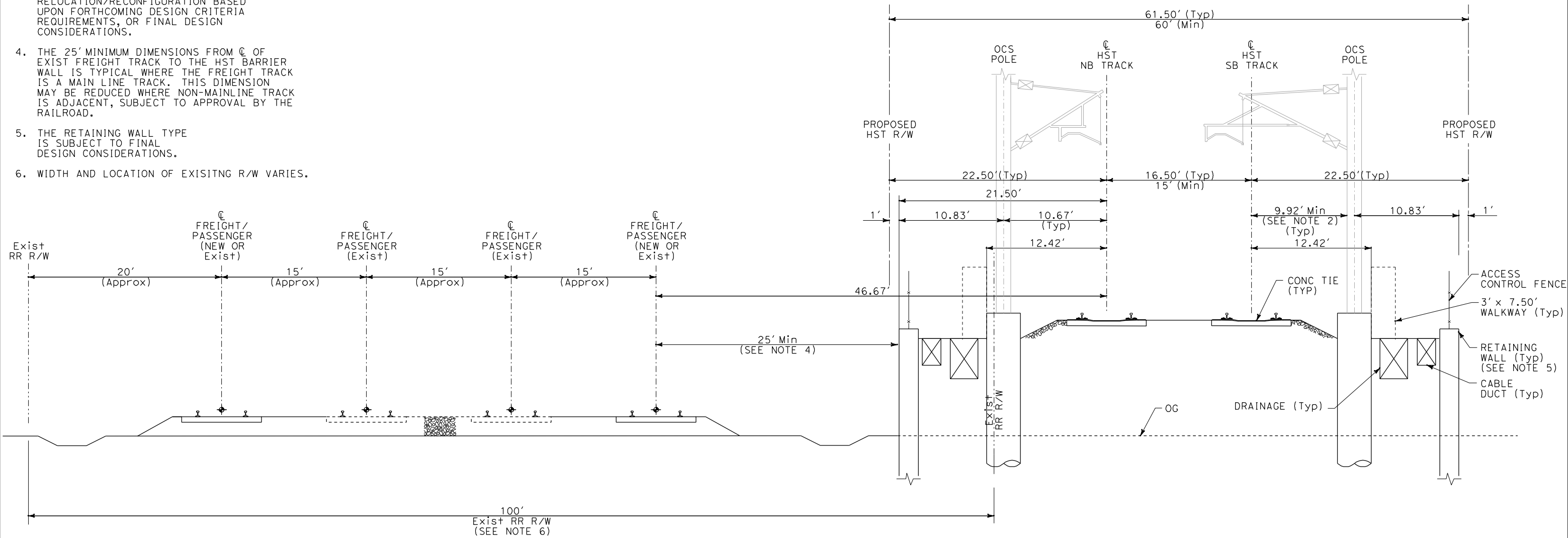
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**

TYPICAL CROSS SECTION
ADJACENT TO BNSF SAN BERNARDINO SUB
AT-GRADE

CONTRACT NO.	HSR06-0005
DRAWING NO.	TA3002
SCALE	1" = 5'
SHEET NO.	

NOTES:

1. SIZING OF BARRIER WALL SHOWN IS CONCEPTUAL. ACTUAL SIZING MAY VARY BASED UPON FINAL DESIGN CONSIDERATIONS.
2. MAXIMUM WIDTH OF OCS POLES IS ASSUMED TO BE 18". MAXIMUM DIAMETER OF OCS POLE FOUNDATIONS IS ASSUMED TO BE 36".
3. CONCRETE DRAINAGE CHANNEL AND DUCTBANK ARE SHOWN AT REPRESENTATIVE SIZE AND LOCATIONS, AND ARE SUBJECT TO RELOCATION/RECONFIGURATION BASED UPON FORTHCOMING DESIGN CRITERIA REQUIREMENTS, OR FINAL DESIGN CONSIDERATIONS.
4. THE 25' MINIMUM DIMENSIONS FROM C OF EXIST FREIGHT TRACK TO THE HST BARRIER WALL IS TYPICAL WHERE THE FREIGHT TRACK IS A MAIN LINE TRACK. THIS DIMENSION MAY BE REDUCED WHERE NON-MAINLINE TRACK IS ADJACENT, SUBJECT TO APPROVAL BY THE RAILROAD.
5. THE RETAINING WALL TYPE IS SUBJECT TO FINAL DESIGN CONSIDERATIONS.
6. WIDTH AND LOCATION OF EXISTING R/W VARIES.



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY



DESIGNED BY	K. MCCULLOUGH
DRAWN BY	K. MCCULLOUGH
CHECKED BY	A. SOKOL
IN CHARGE	D. THOMSON
DATE	12-22-09



STV Incorporated
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
Without ever leaving the ground.

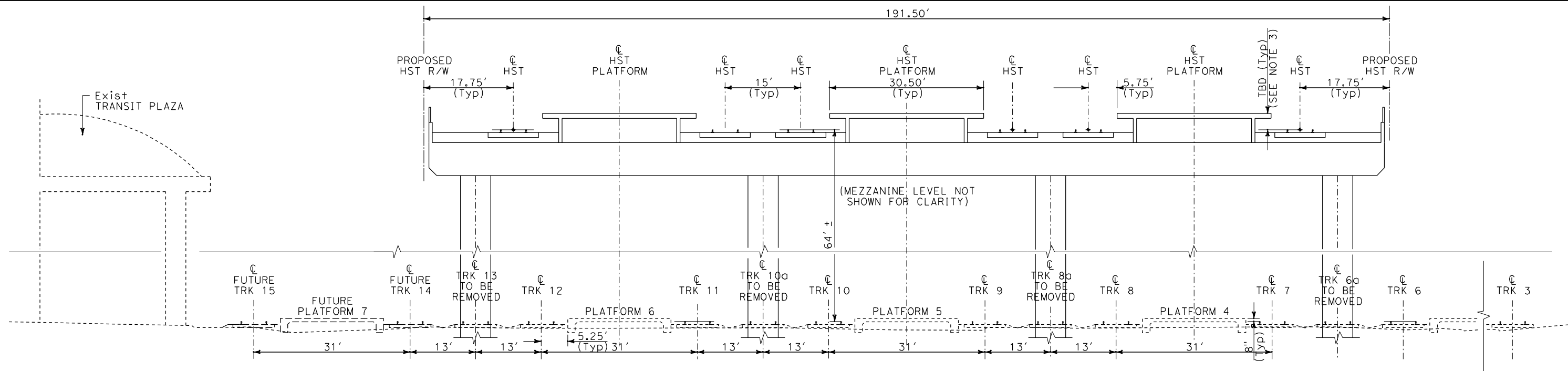
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**

TYPICAL CROSS SECTION
ADJACENT TO BNSF SAN BERNARDINO SUB
TRANSITION FROM AT-GRADE TO AERIAL VIADUCT

CONTRACT NO.	HSR06-0005
DRAWING NO.	TA3003
SCALE	1" = 5'
SHEET NO.	

12/23/2009 3:33:09 PM i:\projects\4013179\4013179_0001\Drawings\TRA\DLV\Typical\LO-TA-3004.dgn

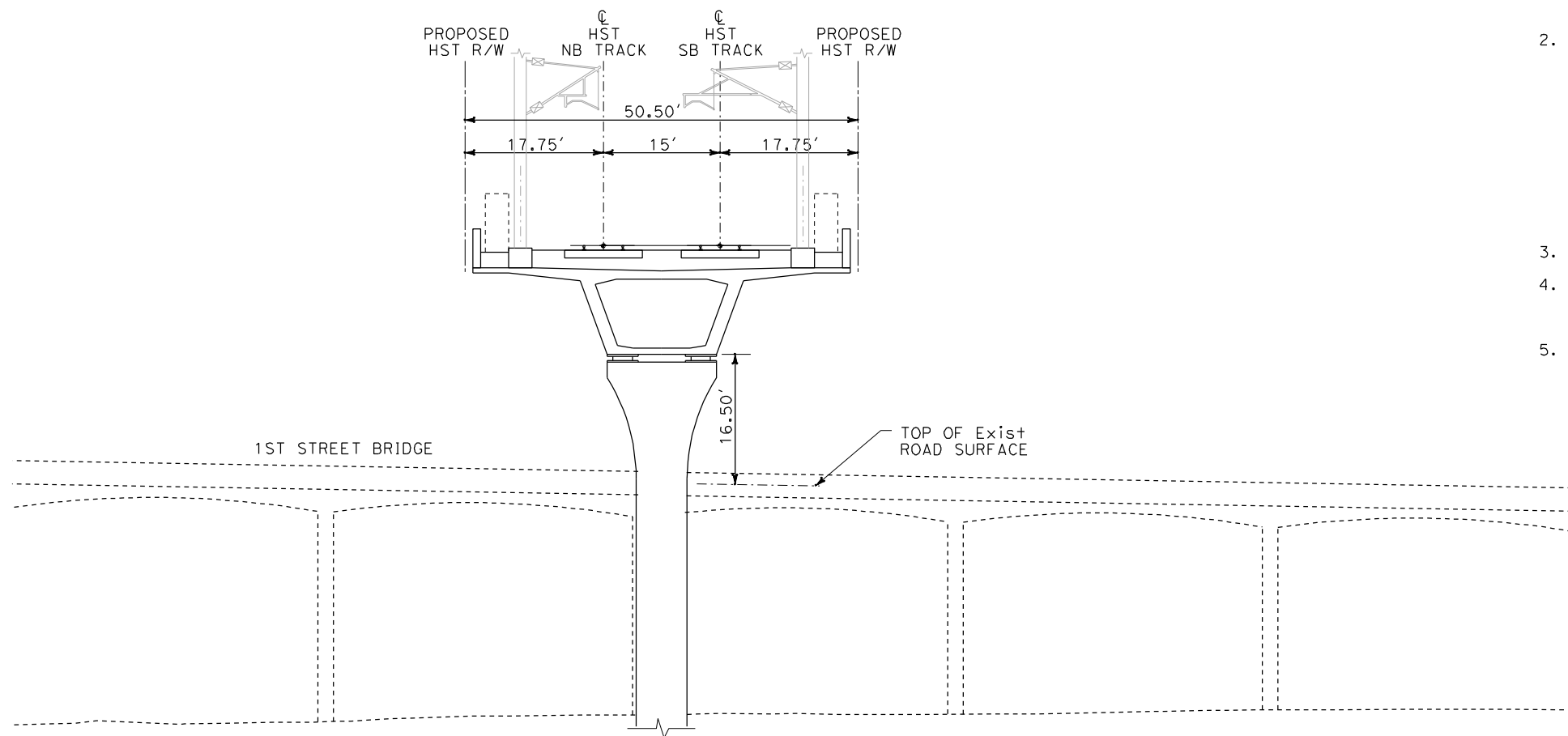
sperrykm



A
TA1001
LOS ANGELES UNION STATION
STA 10+50

NOTES:

1. TYPICAL SECTION AT LAUS DOES NOT INCLUDE PEDESTRIAN ACCESS/BRIDGE OR CANOPIES, WHICH ARE CURRENTLY UNDER DEVELOPMENT.
2. THE PROPOSED RUN-THROUGH TRACK PROJECT WOULD RAISE TRACKS 3, 4, 5 AND 6 BY APPROX 5'. BECAUSE THE RUN-THROUGH TRACKS WOULD CROSS UNDER THE HST TRACKS JUST SOUTH OF THE STATION, THE HST TRACKS AND PLATFORM MUST BE HIGH ENOUGH TO CLEAR OVER THE PROPOSED RUN-THROUGH TRACKS (MINIMUM DIMENSION PROVIDED). DEPENDING ON THE DESIGN OF THE OVERALL LAYOUT, INCLUDING SOUTH AND NORTH APPROACHES, AND PEDESTRIAN ACCESS, THE HST TRACKS AND PLATFORM MAY BE CONSIDERABLY HIGHER.
3. PLATFORM HEIGHT SUBJECT TO CHANGE.
4. SIZING OF STRUCTURAL ELEMENTS SHOWN IS CONCEPTUAL. ACTUAL SIZING MAY VARY BASED UPON FINAL DESIGN CONSIDERATIONS.
5. ACCESS CONTROL FENCE TO BE LOCATED AT THE PROPOSED R/W, WHERE REQUIRED.



B
TA1002
AERIAL STRUCTURE OVER 1ST STREET BRIDGE
STA 41+00

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

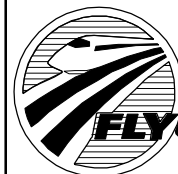


REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09



STV Incorporated
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
Without ever leaving the ground.

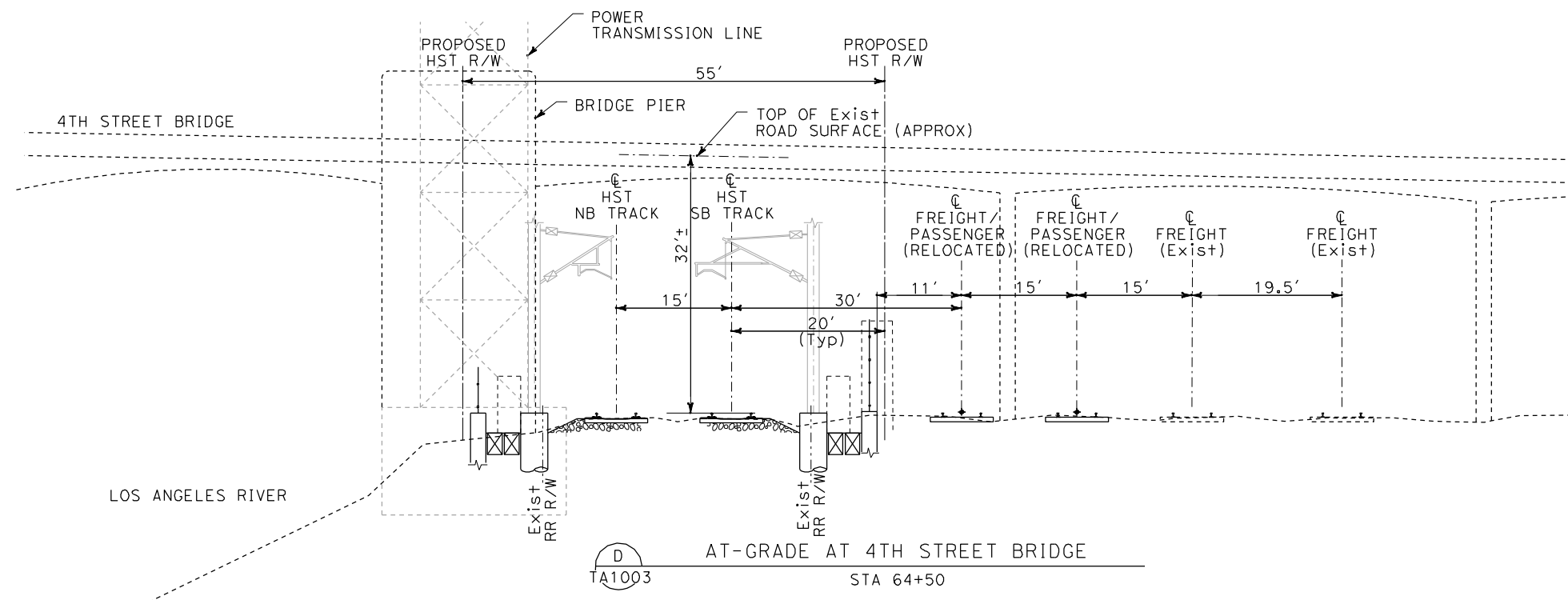
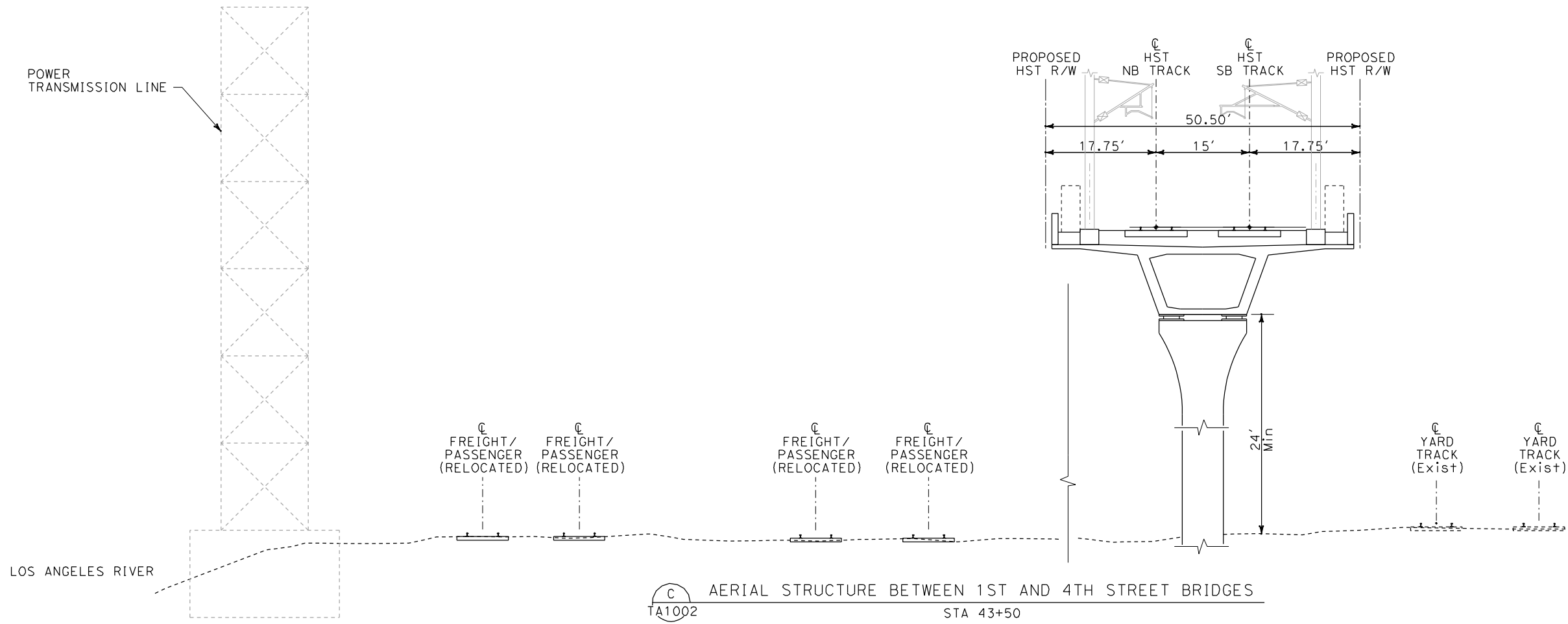
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**
BASELINE ALIGNMENT

CROSS SECTIONS

CONTRACT NO. HSR06-0005
DRAWING NO. TA3004
SCALE 1" = 10'
SHEET NO.

12/21/2009 4:53:43 PM i:\projects\4013179\4013179_0001\drawings\tra\div\typicals\LO-TA-3005.dgn

SPERRY



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY



REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09

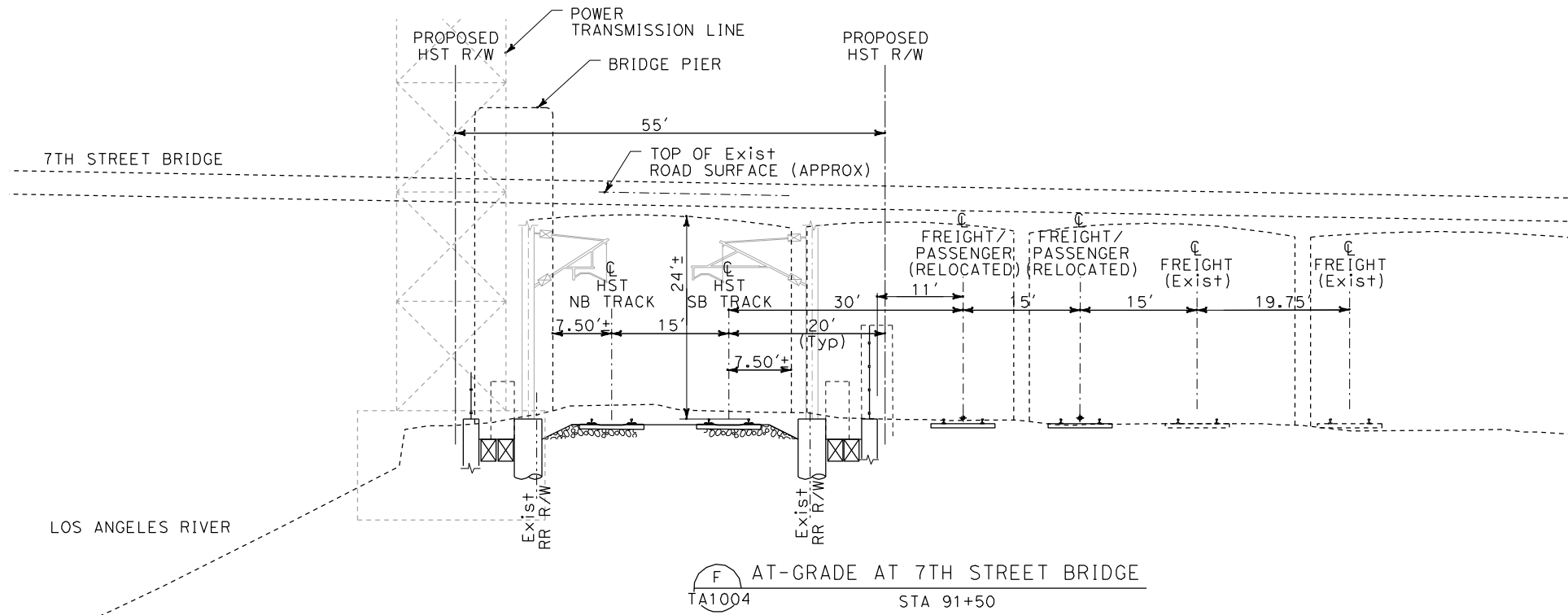
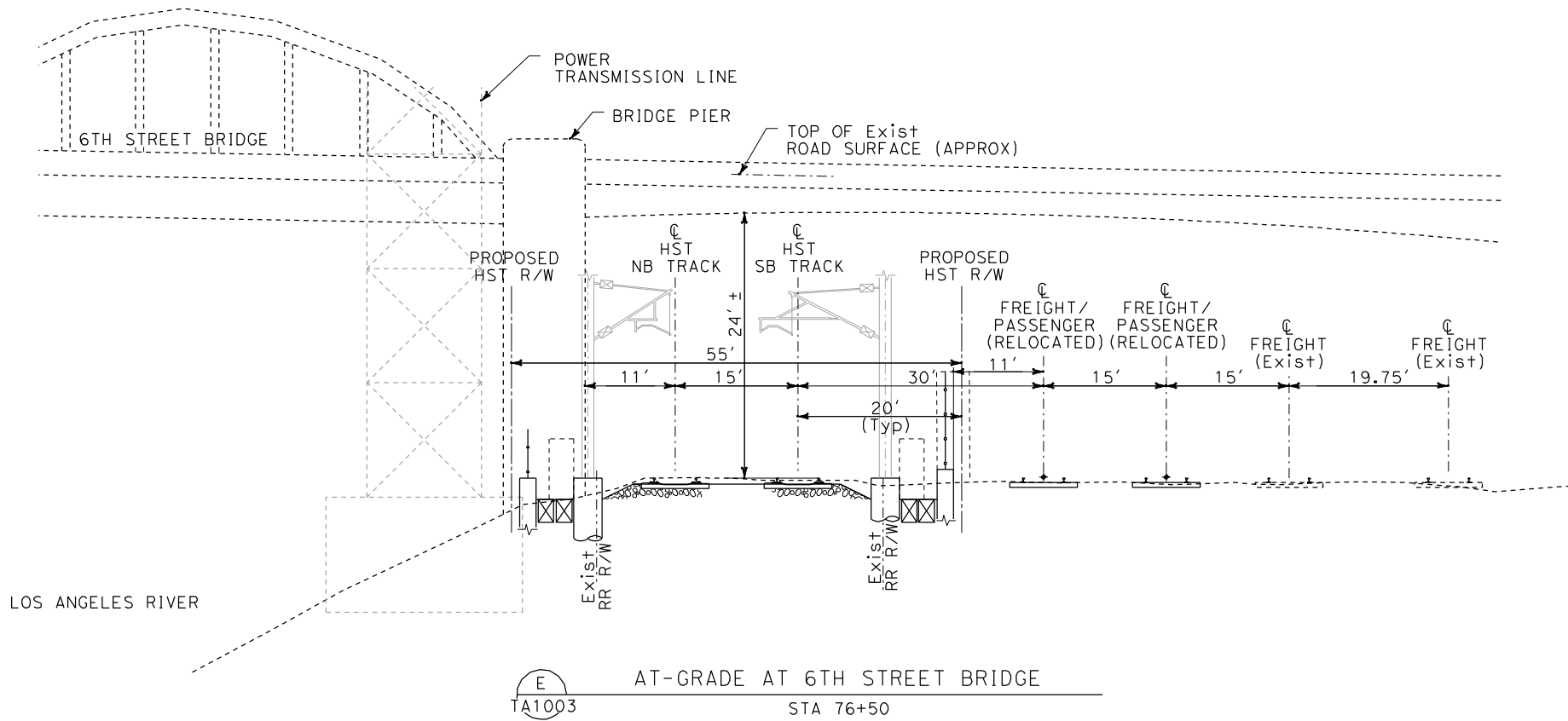


CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT
CROSS SECTIONS

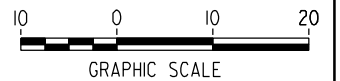
CONTRACT NO. HSR06-0005
DRAWING NO. TA3005
SCALE 1" = 10'
SHEET NO.

12/21/2009 4:53:47 PM i:\projects\4013179\4013179_0001\drawings\travdiv\typical\LO-TA-3006.dgn

SPERRYKIN



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY



REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY	K. MCCULLOUGH
DRAWN BY	K. MCCULLOUGH
CHECKED BY	A. SOKOL
IN CHARGE	D. THOMSON
DATE	12-22-09

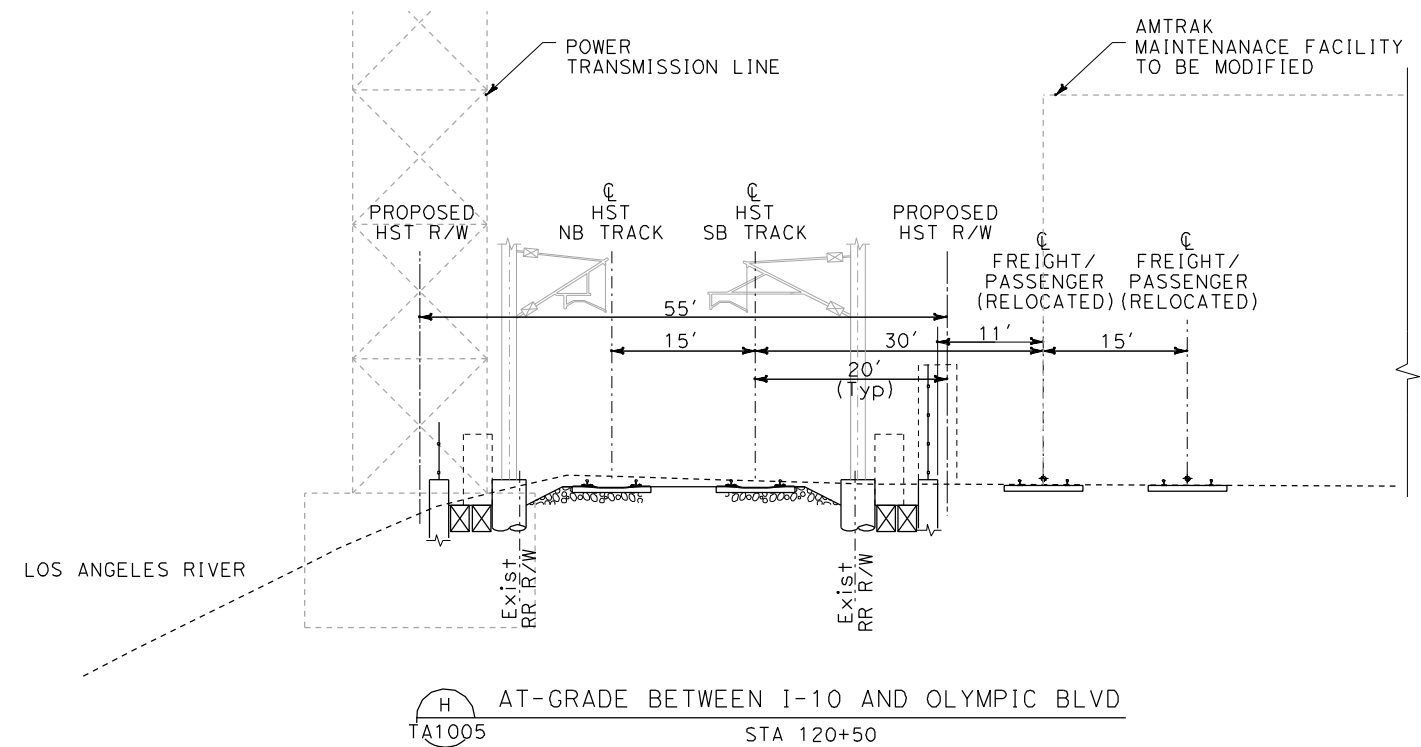
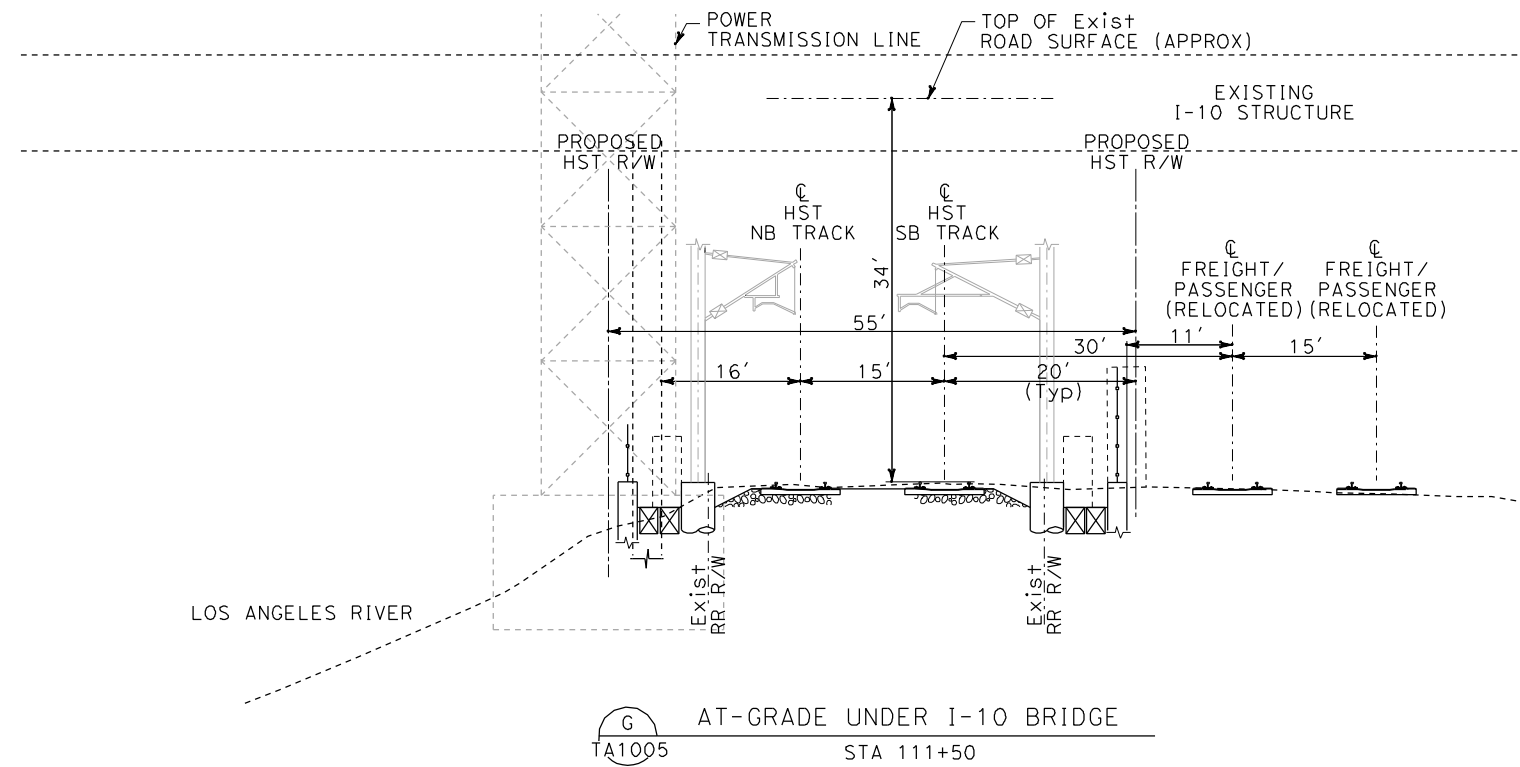


CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT
CROSS SECTIONS

CONTRACT NO.	HSR06-0005
DRAWING NO.	TA3006
SCALE	1" = 10'
SHEET NO.	

12/21/2009 5:07:02 PM i:\projects\4013179\4013179_0001\drawings\TRA\DLV\Typical\LO-TA-3007.dgn

SPERRY



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY



REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY	K. MCCULLOUGH
DRAWN BY	K. MCCULLOUGH
CHECKED BY	A. SOKOL
IN CHARGE	D. THOMSON
DATE	12-22-09



STV Incorporated
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
Without ever leaving the ground.

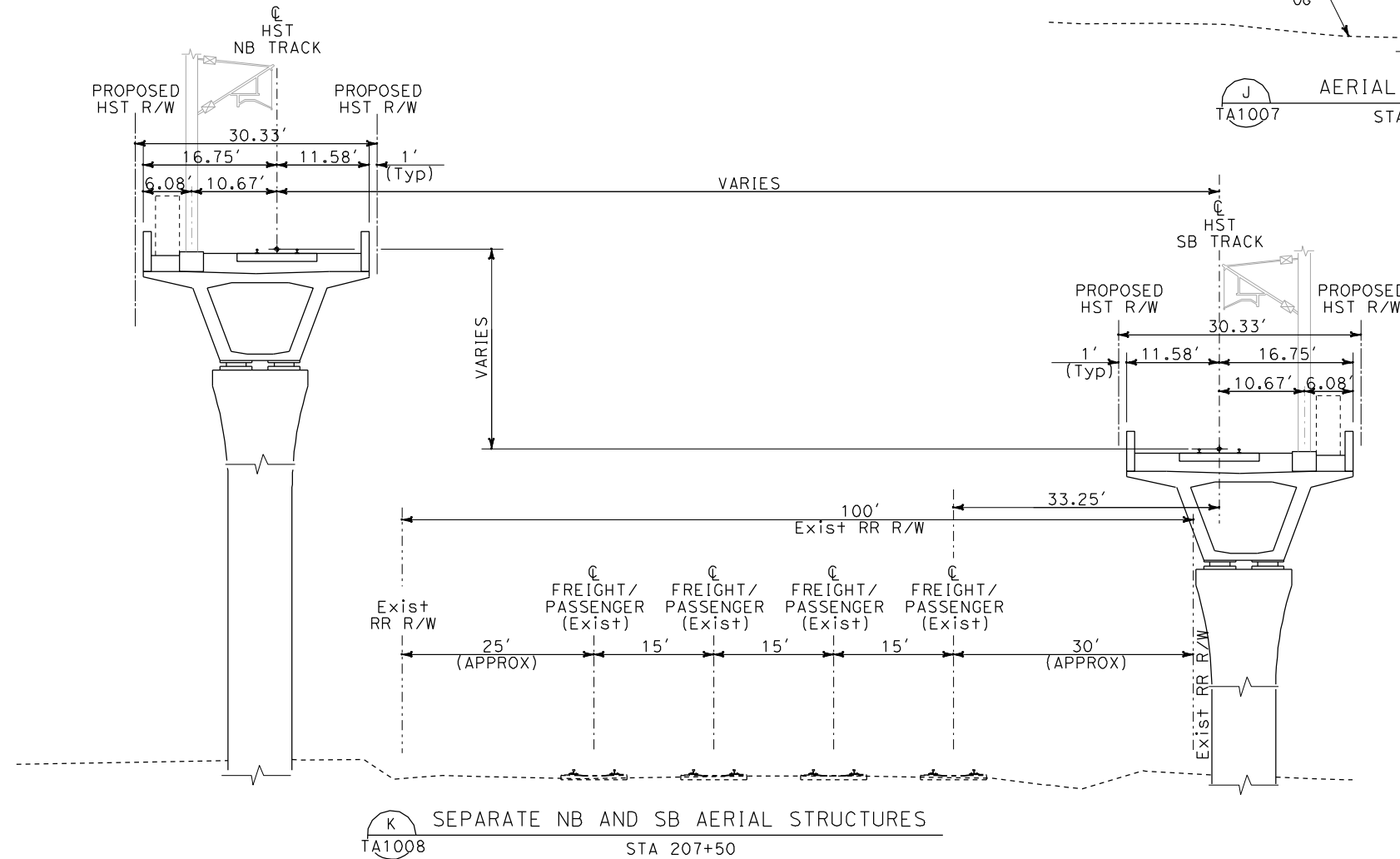
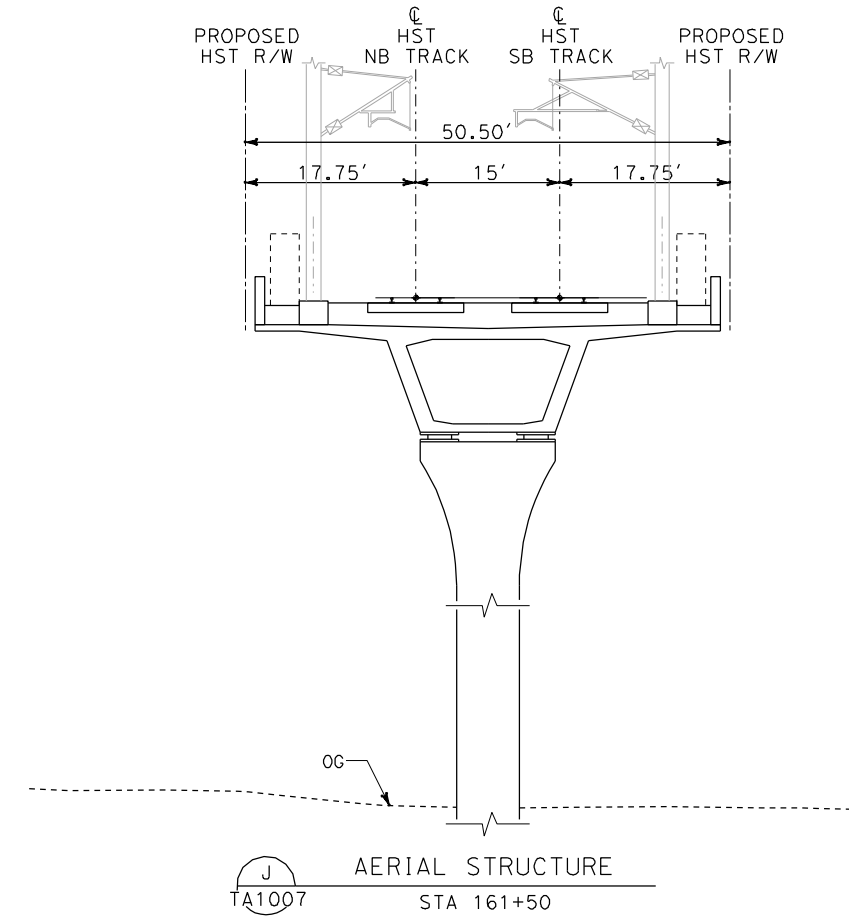
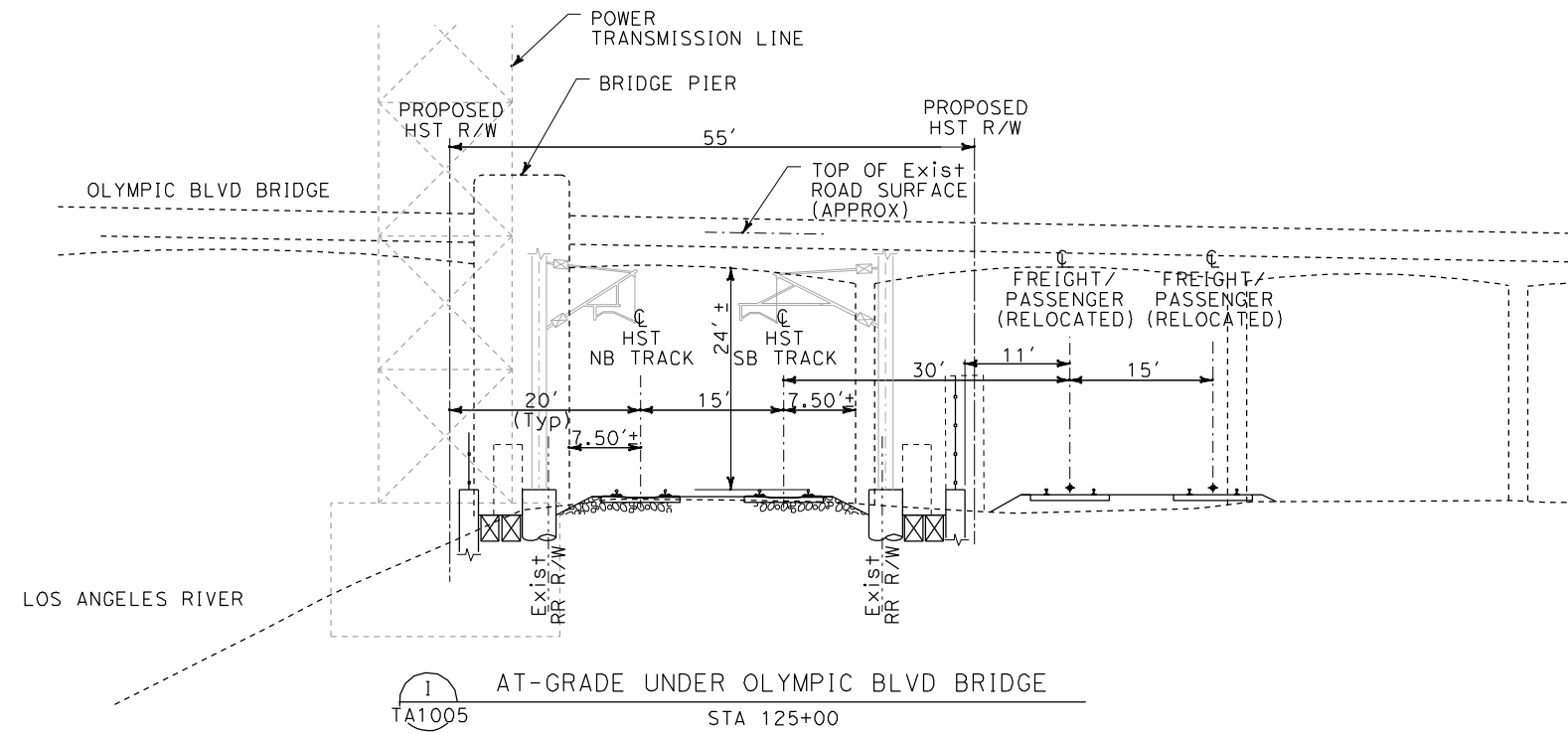
CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT

CROSS SECTIONS

CONTRACT NO.	HSR06-0005
DRAWING NO.	TA3007
SCALE	1" = 10'
SHEET NO.	

12/21/2009 4:53:58 PM i:\projects\4013179\4013179_0001\drawings\travdiv\typical\LO-TA-3008.dgn

SPERRY



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY



REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY	K. MCCULLOUGH
DRAWN BY	K. MCCULLOUGH
CHECKED BY	A. SOKOL
IN CHARGE	D. THOMSON
DATE	12-22-09



STV Incorporated
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
Without ever leaving the ground.

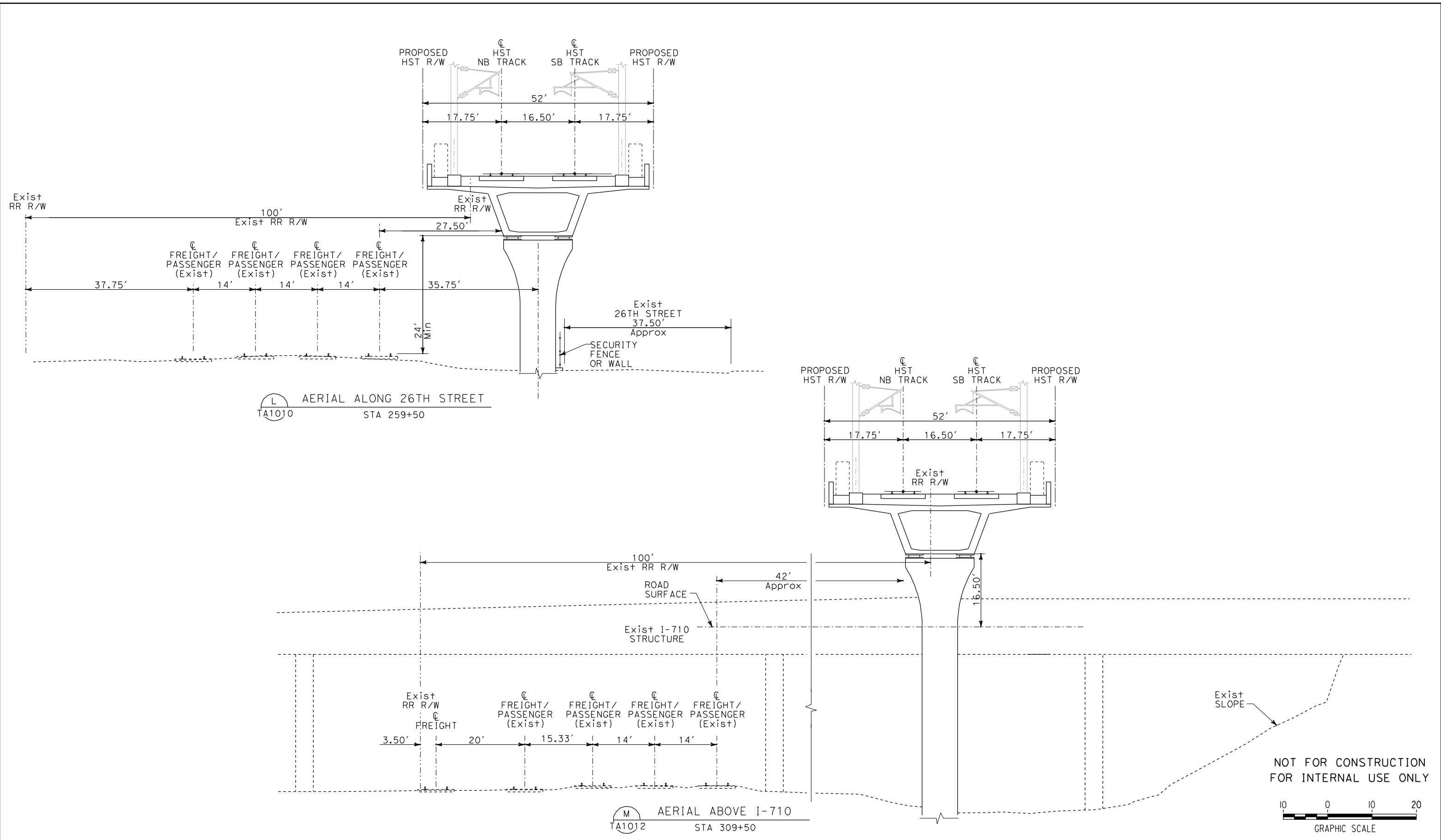
CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT

CROSS SECTIONS

CONTRACT NO.	HSR06-0005
DRAWING NO.	TA3008
SCALE	1" = 10'
SHEET NO.	

12/21/2009 4:54:03 PM i:\projects\4013179\4013179_0001\Drawings\tra\div\typicals\LO-TA-3009.dgn

SPERRY



REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY	K. MCCULLOUGH
DRAWN BY	K. MCCULLOUGH
CHECKED BY	A. SOKOL
IN CHARGE	D. THOMSON
DATE	12-22-09



STV Incorporated
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556

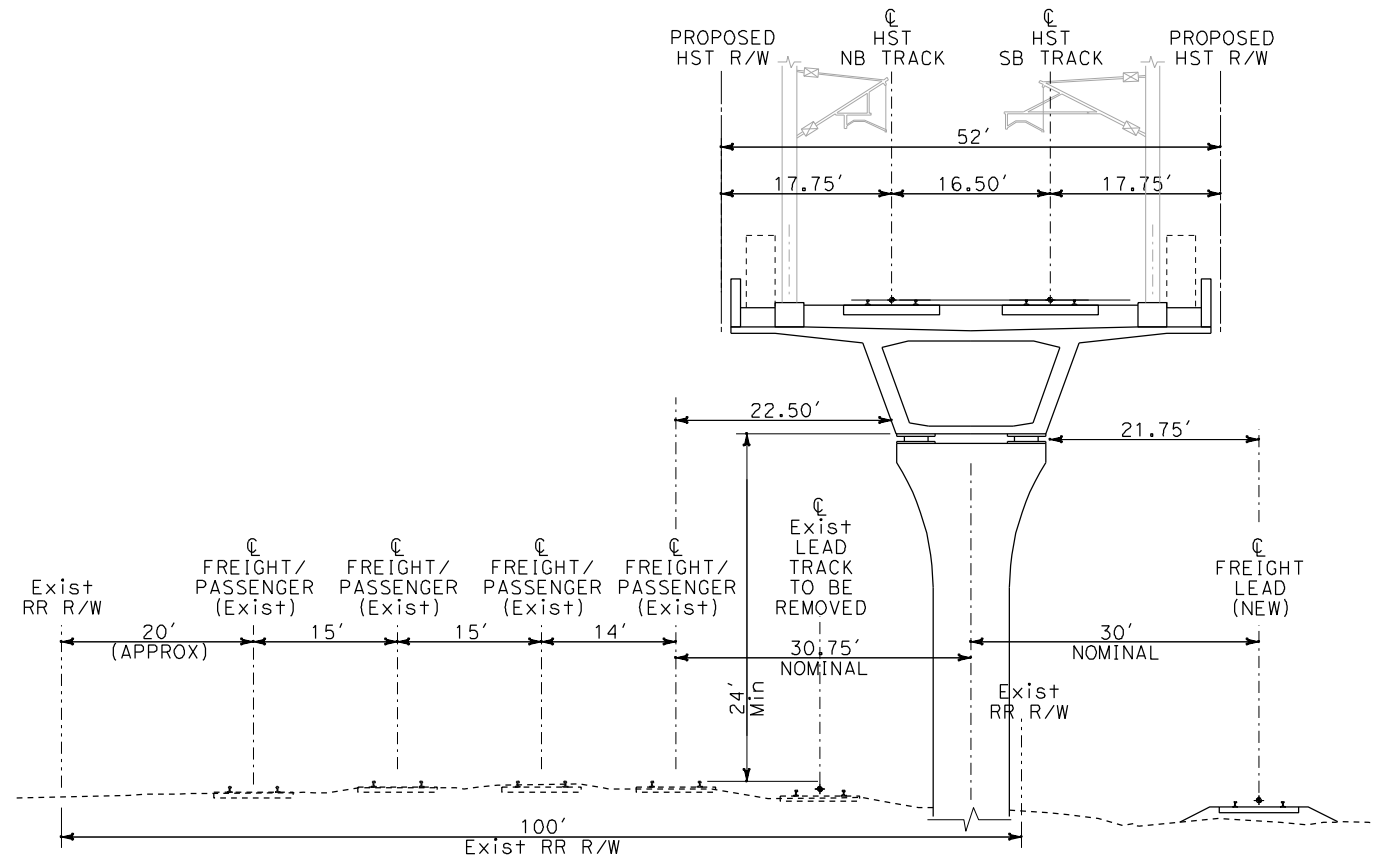


CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
Without ever leaving the ground.

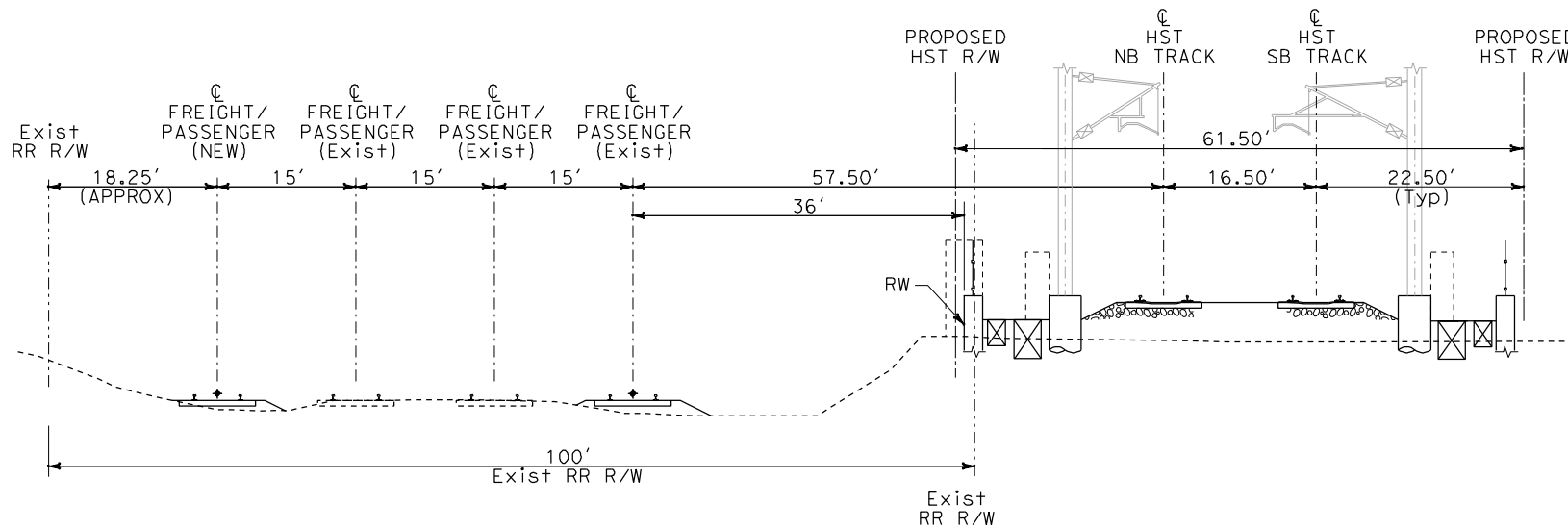
CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT
CROSS SECTIONS

CONTRACT NO.	HSR06-0005
DRAWING NO.	TA3009
SCALE	1" = 10'
SHEET NO.	

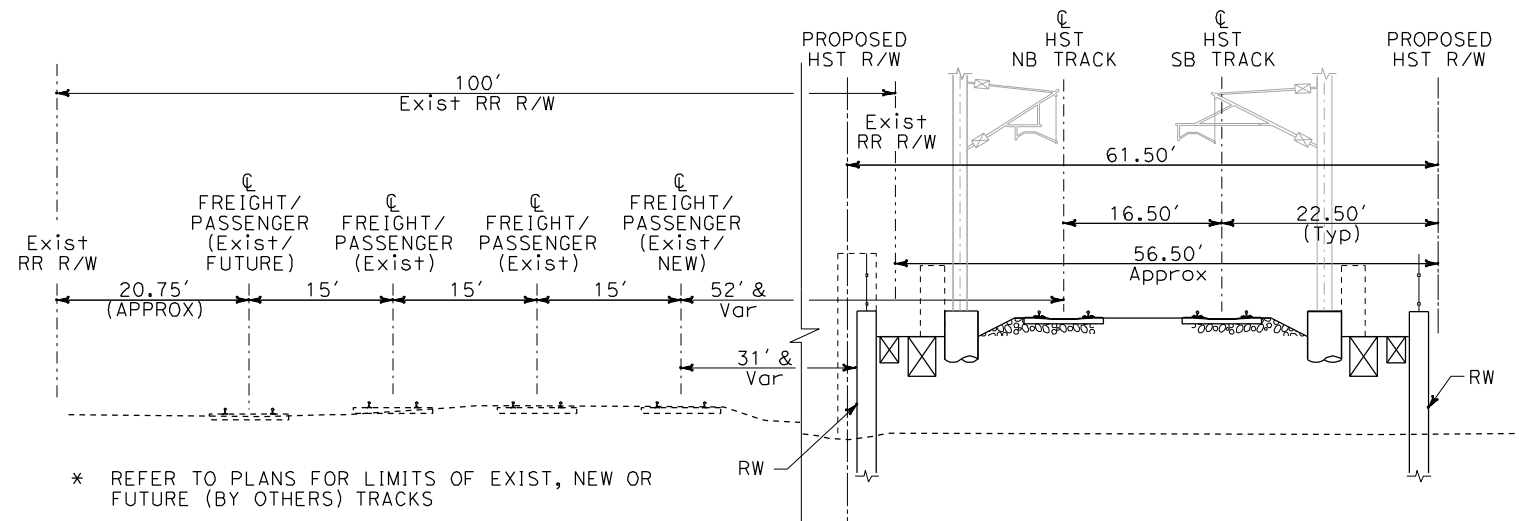
12/21/2009 4:54:07 PM i:\projects\4013179\4013179_0001\drawings\tra\div\typicals\LO-TA-3010.dgn



N
TA1015
AERIAL WITH INDUSTRY TRACK ON SOUTH SIDE OF HST STRUCTURE
STA 378+50

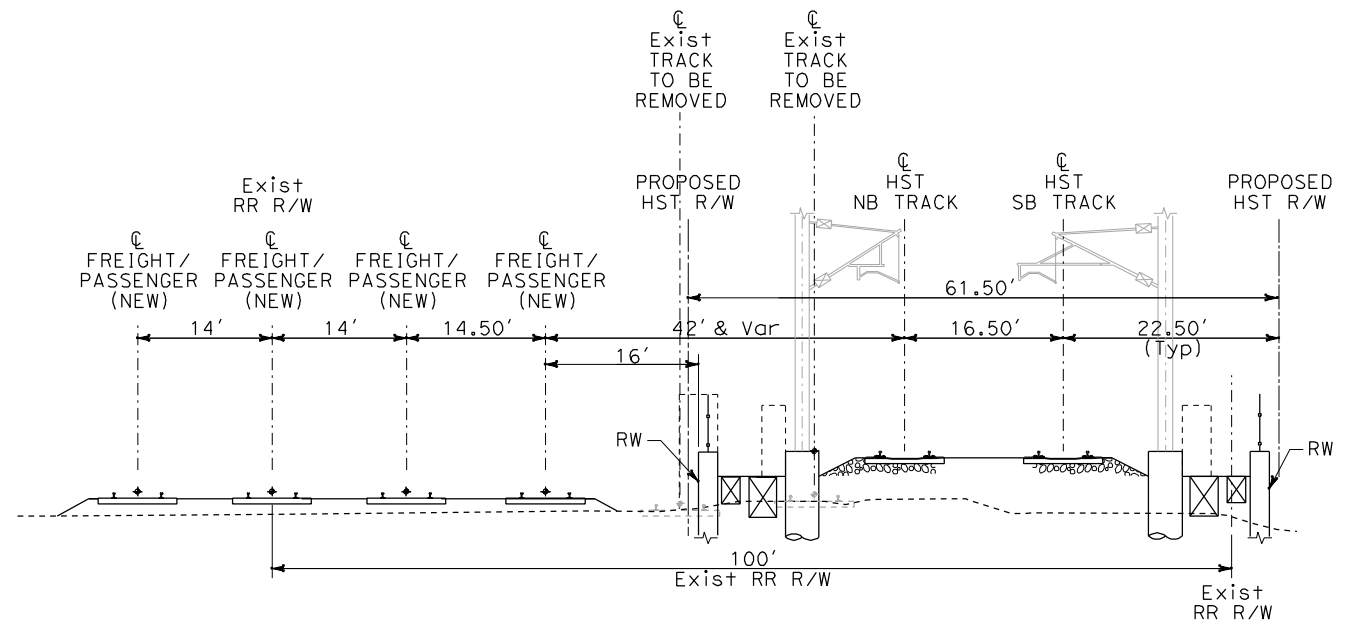


P
TA1019
AT-GRADE SOUTH SIDE OF SAN BERNARDINO SUB
STA 491+50



* REFER TO PLANS FOR LIMITS OF EXIST, NEW OR FUTURE (BY OTHERS) TRACKS

O
TA1017
TA1026
TRANSITION FROM AERIAL TO AT-GRADE, ON RETAINED FILL
STA 442+50
STA 669+50



Q
TA1021
AT-GRADE SOUTH SIDE OF SAN BERNARDINO SUB
STA 535+50

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY



REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09



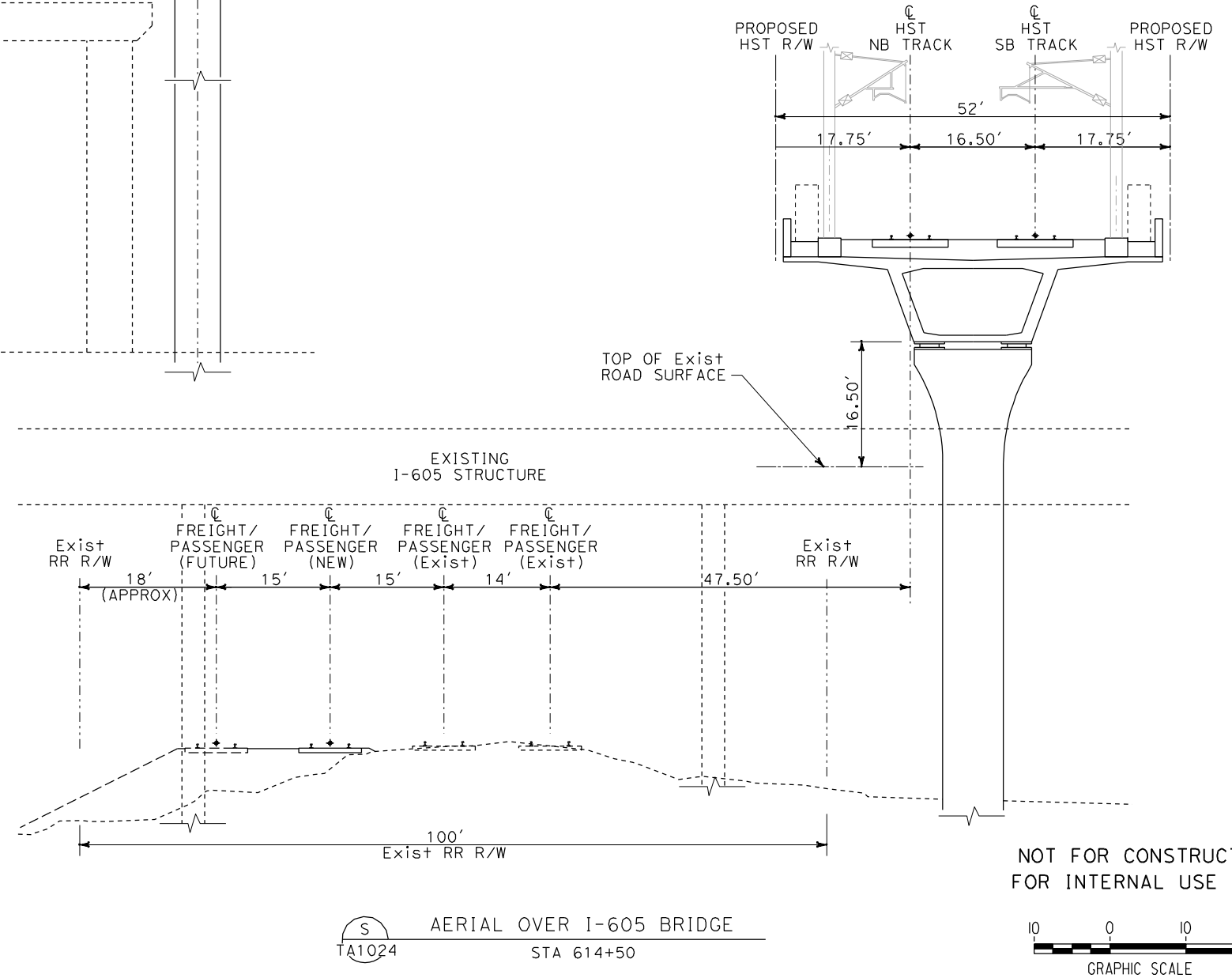
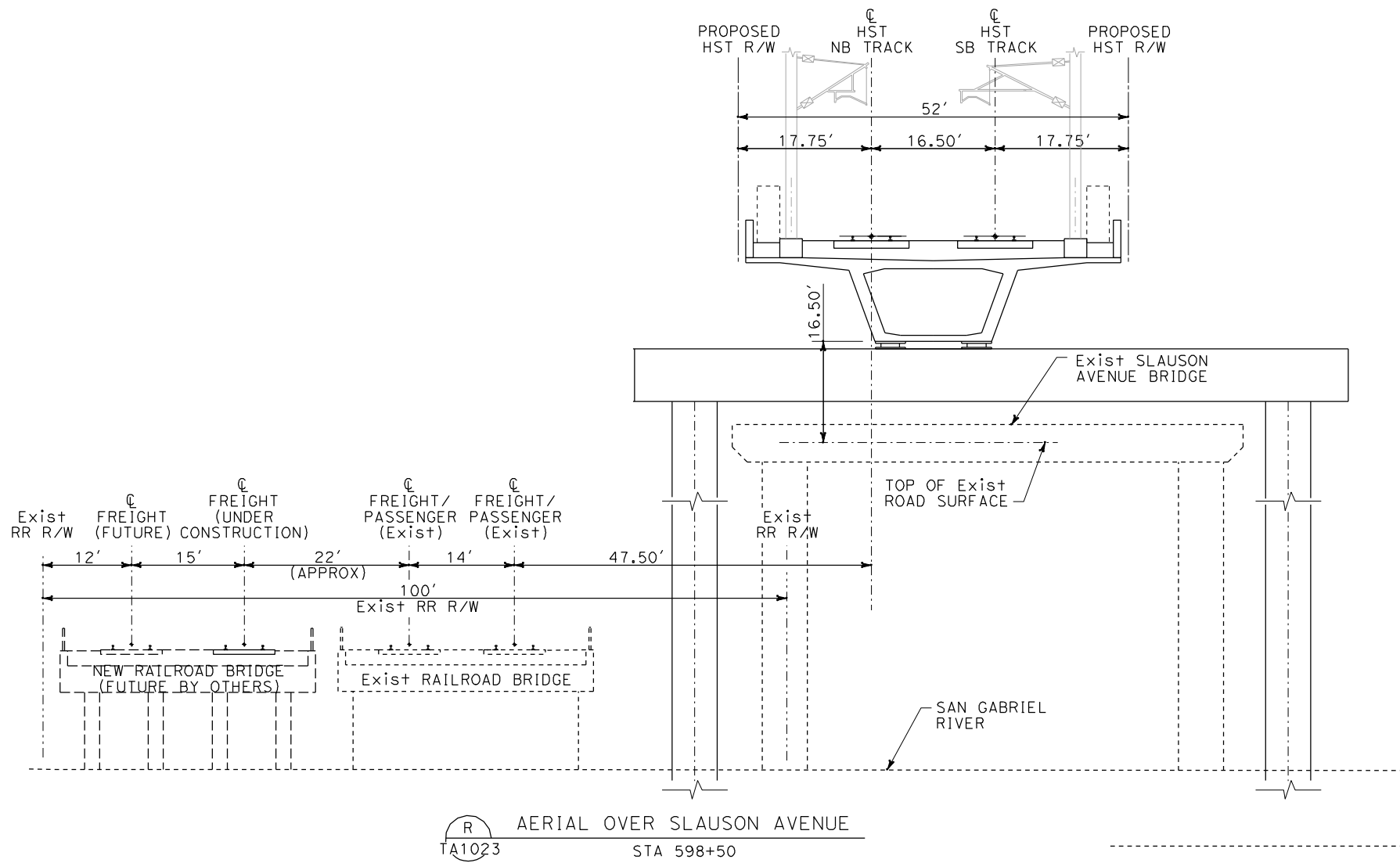
CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT

CROSS SECTIONS

CONTRACT NO. HSR06-0005
DRAWING NO. TA3010
SCALE 1" = 10'
SHEET NO.

12/21/2009 4:54:13 PM i:\projects\4013179\4013179_0001\drawings\tra\div\typicals\LO-TA-3011.dgn

SPERRY



REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09



STV Incorporated
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



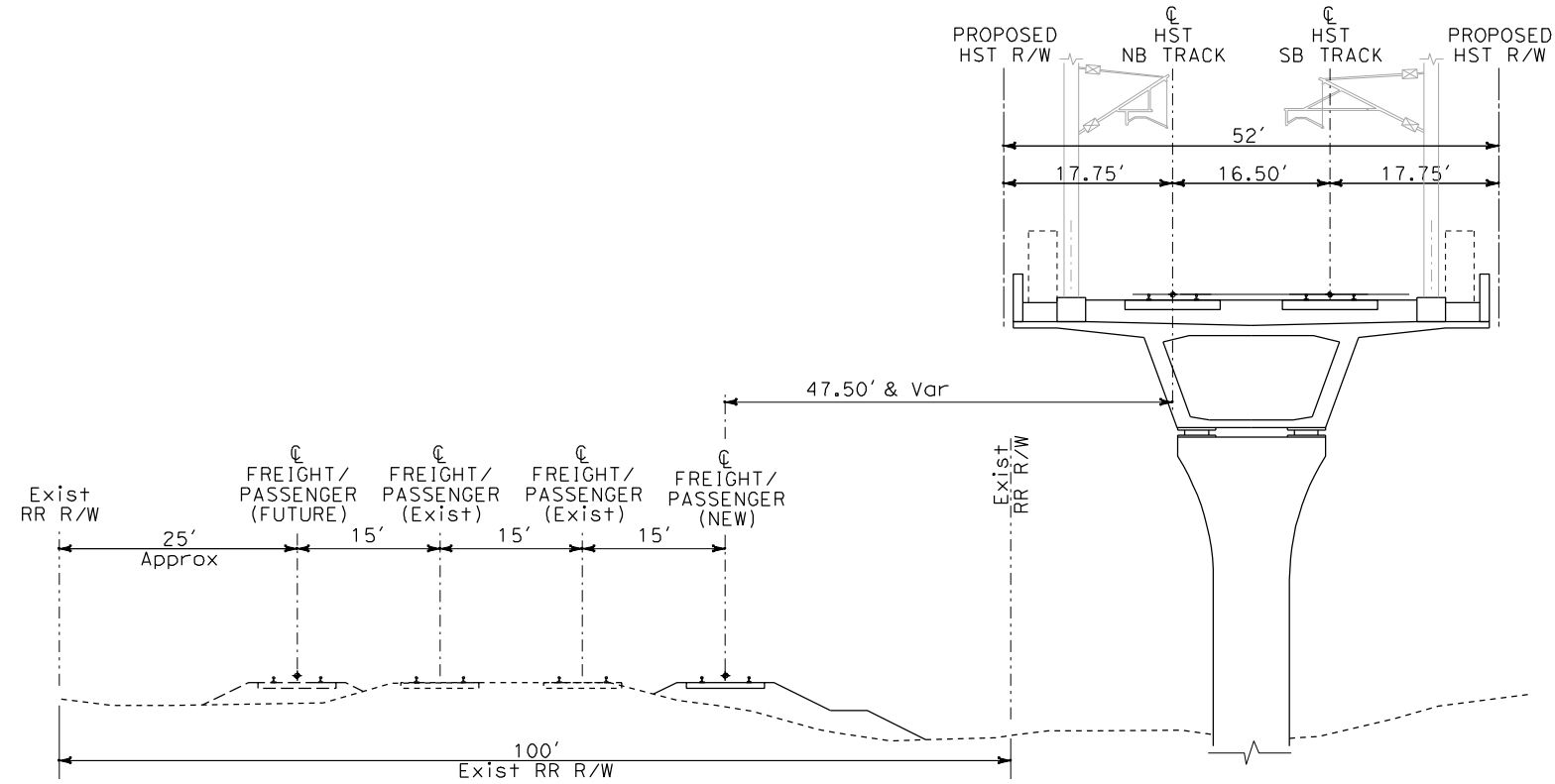
CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
Without ever leaving the ground.

CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT
CROSS SECTIONS

CONTRACT NO. HSR06-0005
DRAWING NO. TA3011
SCALE 1" = 10'
SHEET NO.

12/21/2009 4:54:18 PM i:\projects\4013179\4013179_0001\drawings\tra\div\typicals\LO-TA-3012.dgn

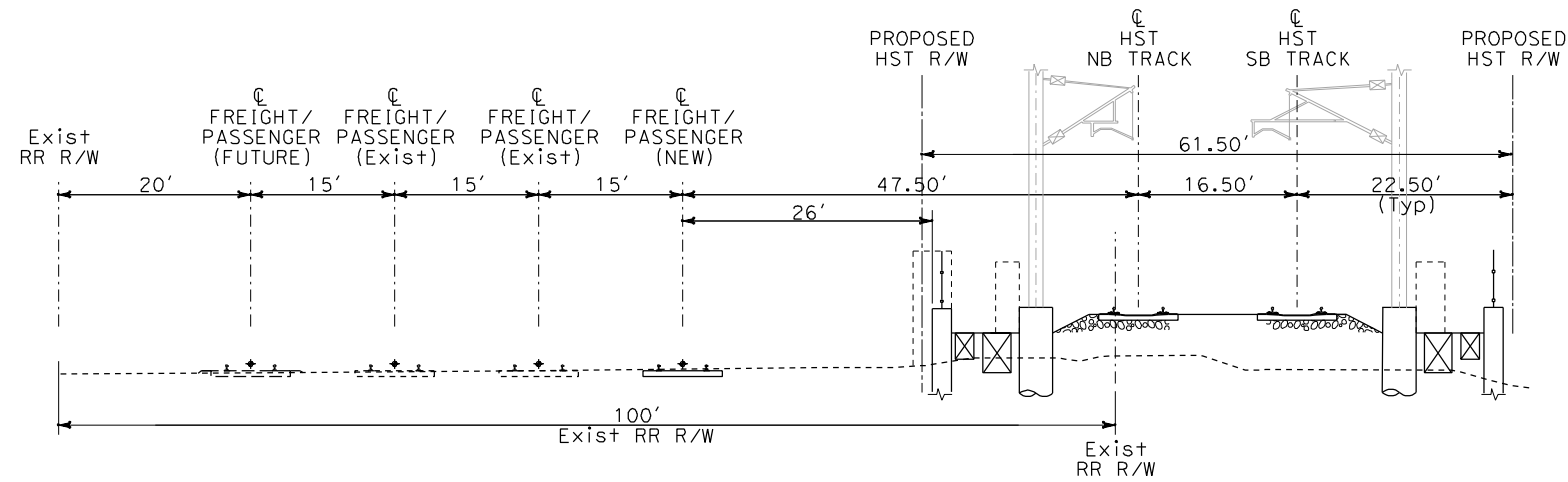
SPERRY



T
TA1025

AERIAL STRUCTURE TO FLY OVER LA HABRA SUBDIVISION

STA 650+50



U
TA1027

AT-GRADE SOUTH SIDE OF SAN BERNARDINO SUB

STA 687+50

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY



GRAPHIC SCALE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY	K. MCCULLOUGH
DRAWN BY	K. MCCULLOUGH
CHECKED BY	A. SOKOL
IN CHARGE	D. THOMSON
DATE	12-22-09



STV Incorporated
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



CALIFORNIA HIGH-SPEED RAIL AUTHORITY

FLY CALIFORNIA
Without ever leaving the ground.

CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES

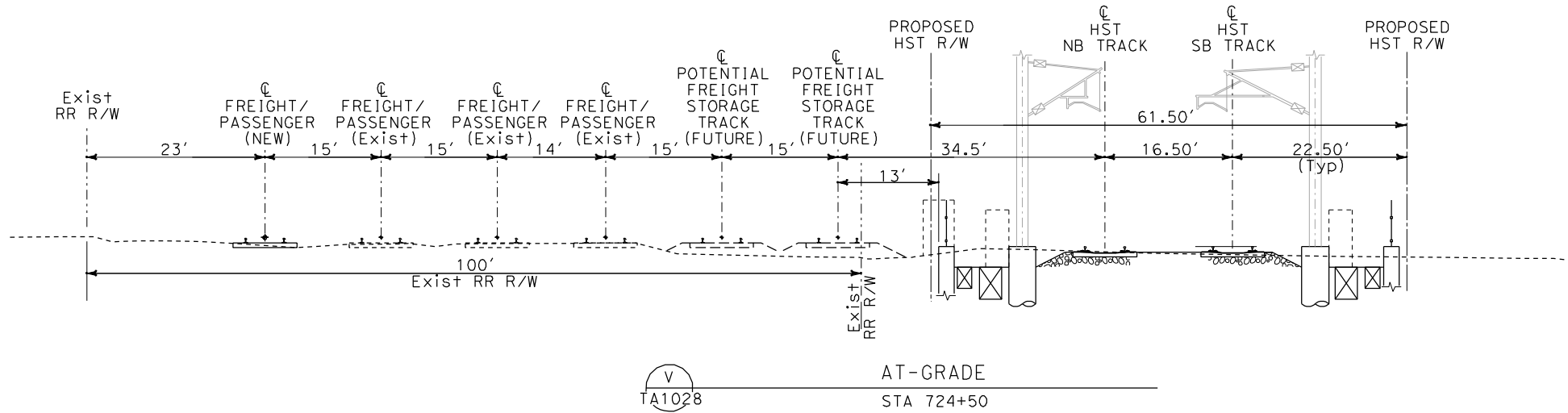
BASELINE ALIGNMENT

CROSS SECTIONS

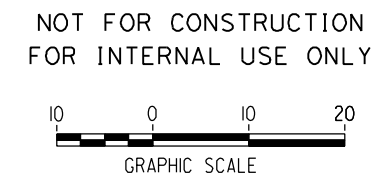
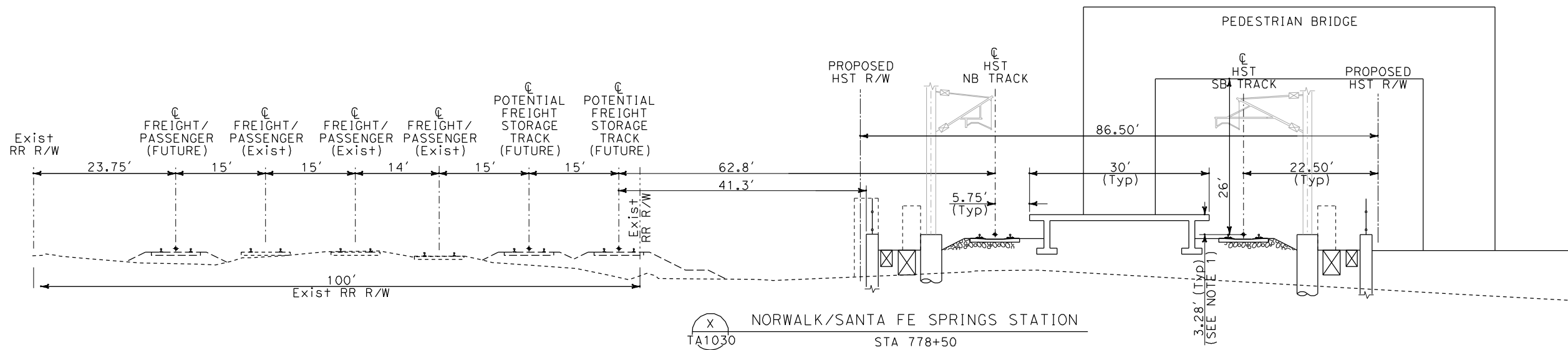
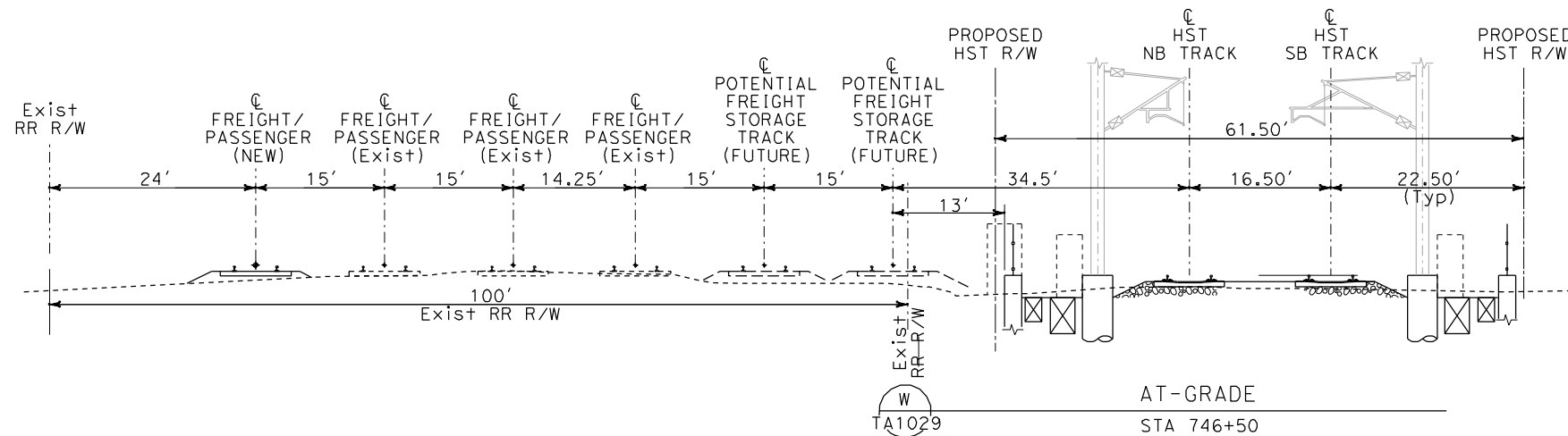
CONTRACT NO.	HSR06-0005
DRAWING NO.	TA3012
SCALE	1" = 10'
SHEET NO.	

12/21/2009 4:54:23 PM i:\projects\4013179\4013179_0001\drawings\tra\div\typicals\LO-TA-3013.dgn

SPERRY



NOTE:
1. PLATFORM HEIGHT SUBJECT TO CHANGE.

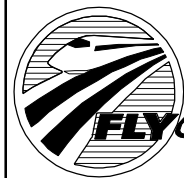


REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09



STV Incorporated
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



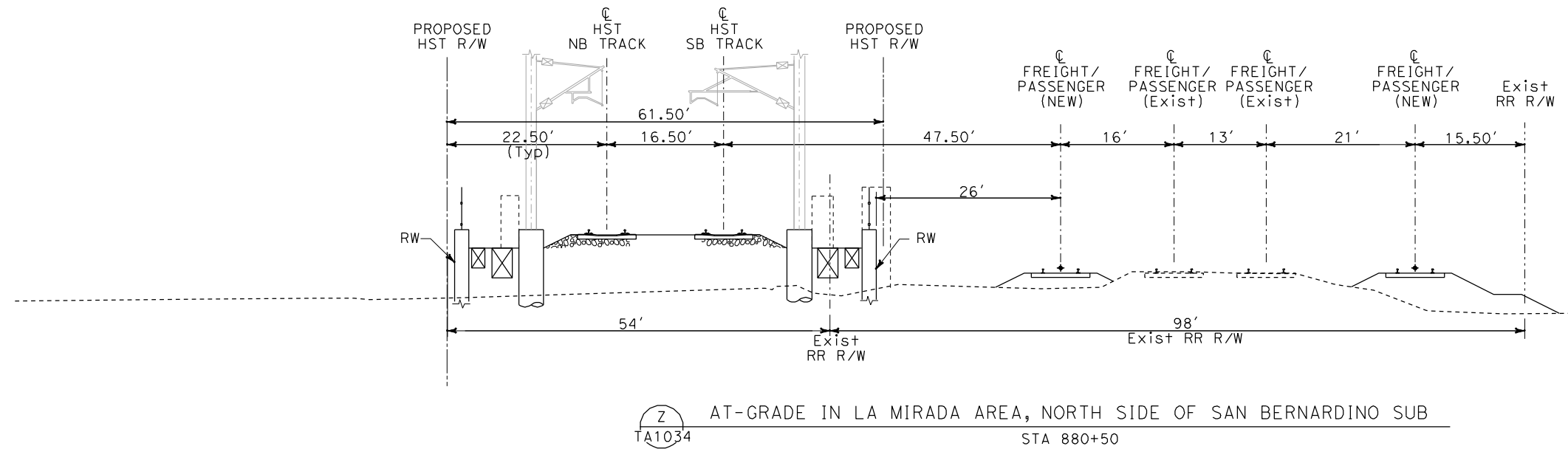
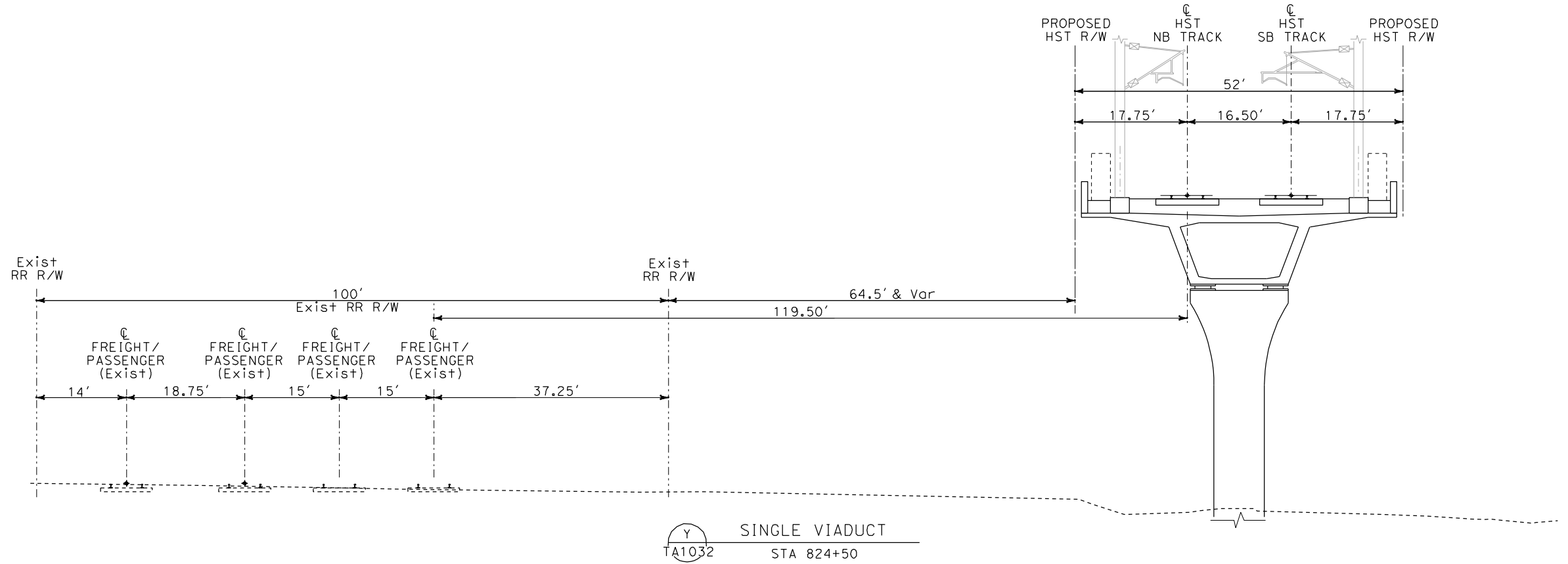
CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
Without ever leaving the ground.

CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT
CROSS SECTIONS

CONTRACT NO. HSR06-0005
DRAWING NO. TA3013
SCALE 1" = 10'
SHEET NO.

12/21/2009 4:54:28 PM i:\projects\4013179\4013179_0001\drawings\tra\div\typicals\LO-TA-3014.dgn

SPERRY



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY



REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY	K. MCCULLOUGH
DRAWN BY	K. MCCULLOUGH
CHECKED BY	A. SOKOL
IN CHARGE	D. THOMSON
DATE	12-22-09



STV Incorporated
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
Without ever leaving the ground.

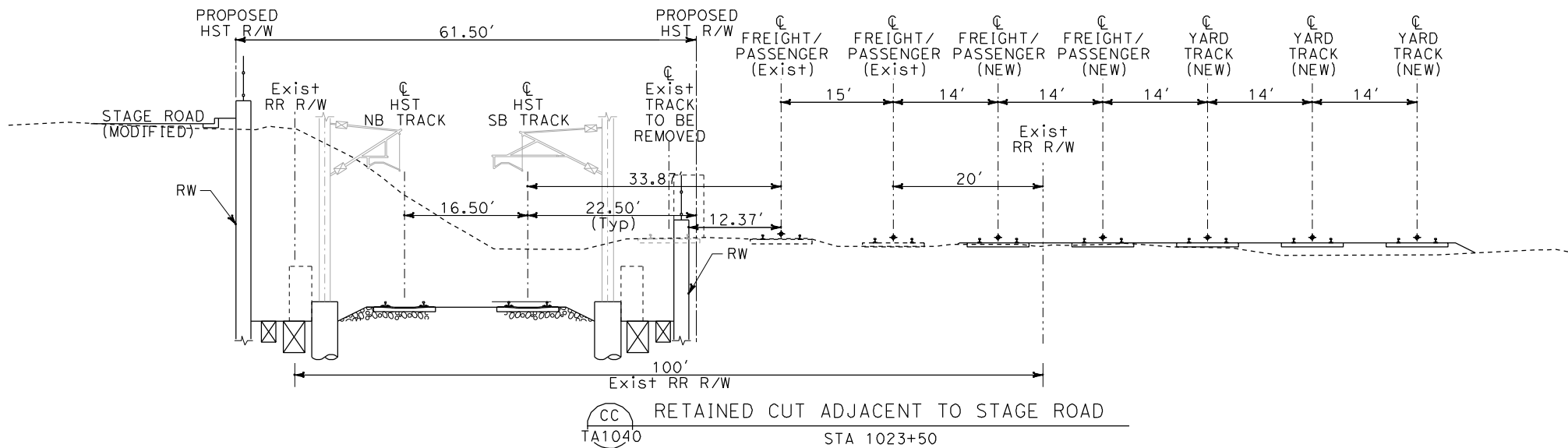
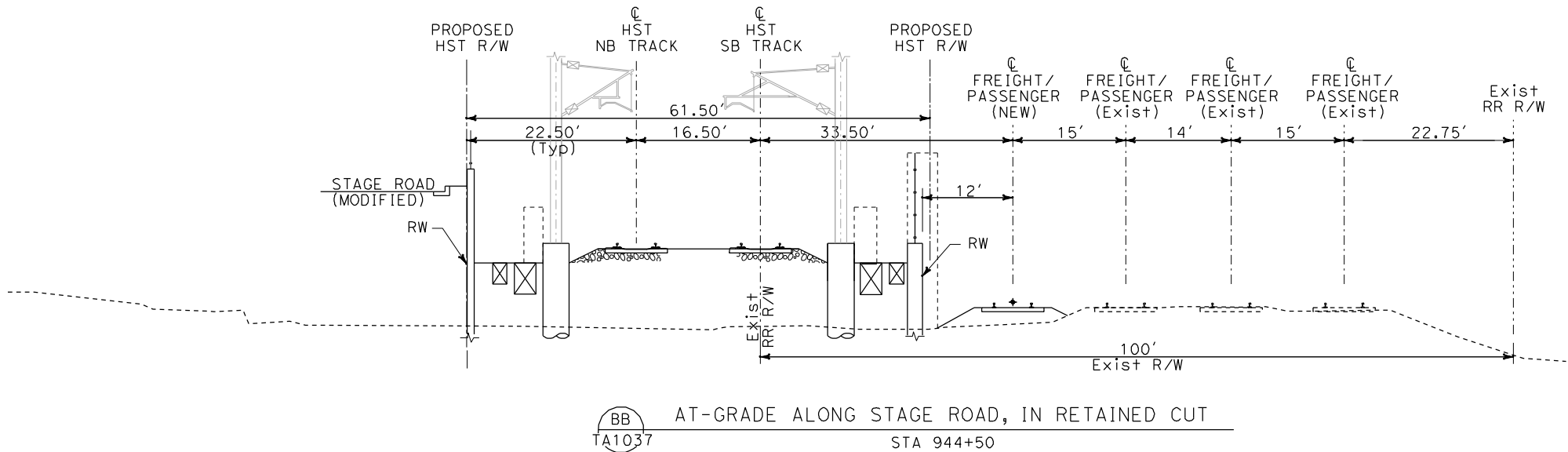
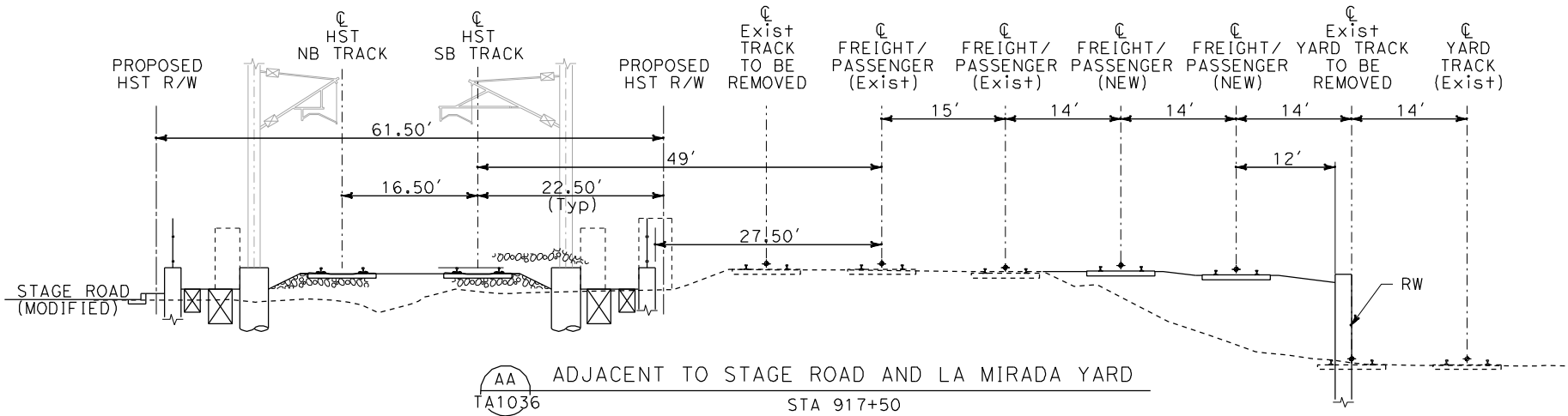
CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT

CROSS SECTIONS

CONTRACT NO.	HSR06-0005
DRAWING NO.	TA3014
SCALE	1" = 10'
SHEET NO.	

12/21/2009 4:54:33 PM i:\projects\4013179\4013179_0001\drawings\trac\div\typicals\LO-TA-3015.dgn

NOTE:
1. EXISTING MAIN LINE AND YARD TRACKS ALONG THE LA MIRADA YARD AREA REQUIRE RECONFIGURATION IN COORDINATION WITH BNSF. INFORMATION SHOWN ON THIS PLAN IS CONCEPTUAL AND SUBJECT TO CHANGE BASED UPON DISCUSSION AND COORDINATION WITH BNSF.



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY



REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09



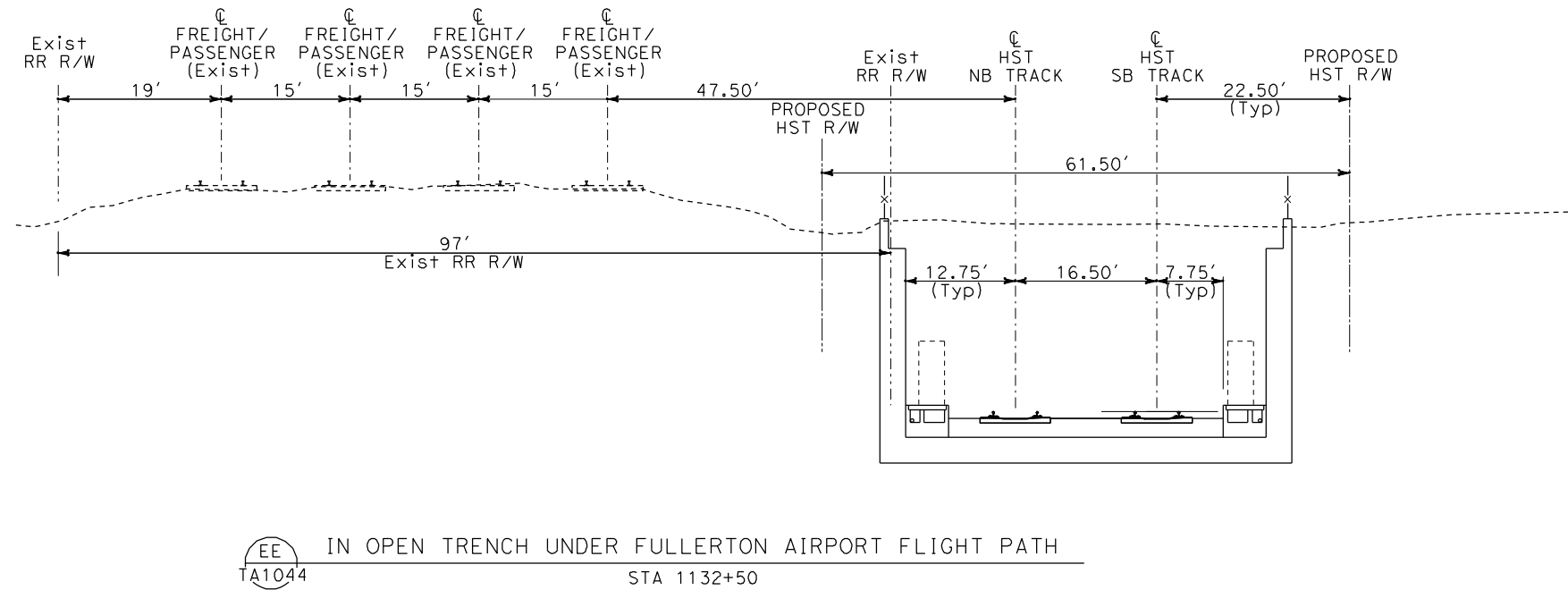
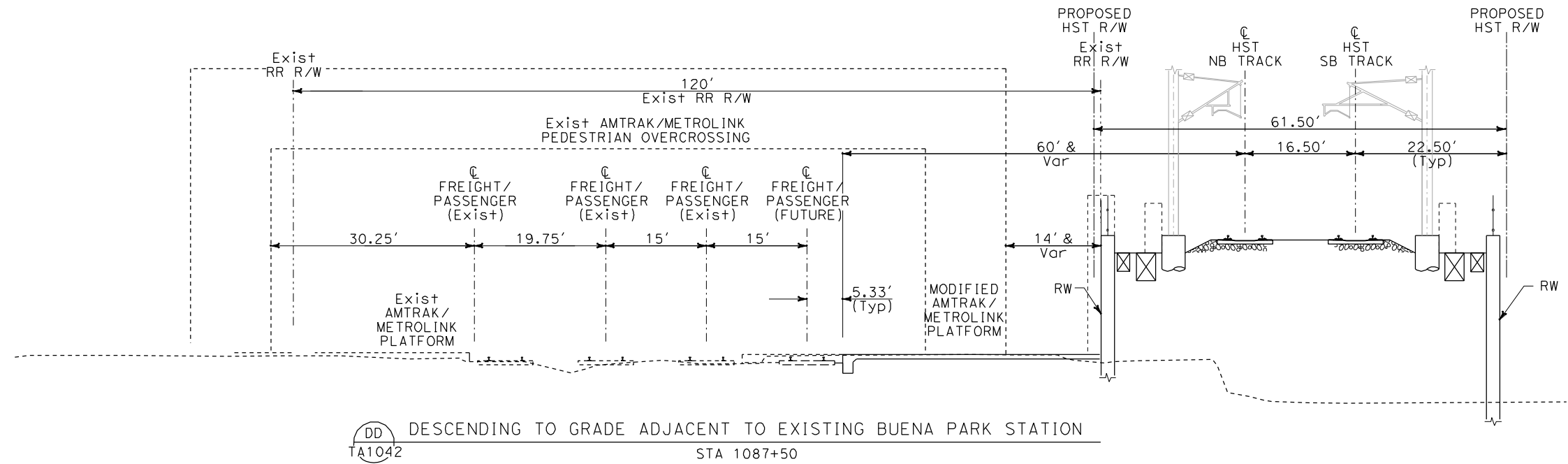
CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT

CROSS SECTIONS

CONTRACT NO. HSR06-0005
DRAWING NO. TA3015
SCALE 1" = 10'
SHEET NO.

12/21/2009 4:54:38 PM I:\projects\4013179\4013179_0001\Drawings\Track\div\typicals\LO-TA-3016.dgn

SPERRY



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY



REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09



STV Incorporated
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
Without ever leaving the ground.

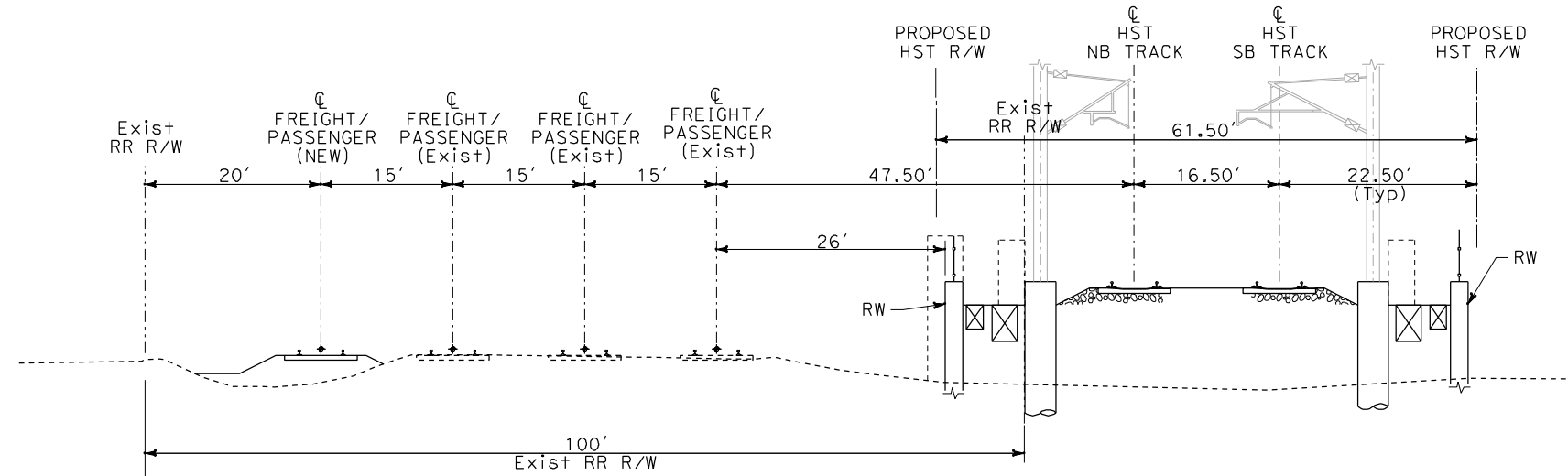
CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT

CROSS SECTIONS

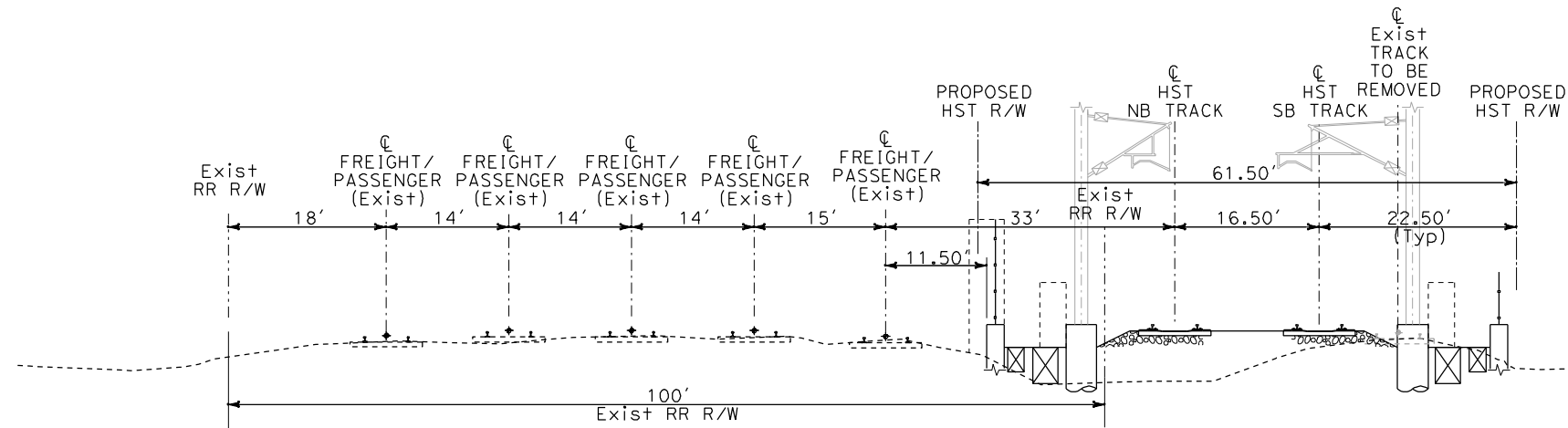
CONTRACT NO. HSR06-0005
DRAWING NO. TA3016
SCALE 1" = 10'
SHEET NO.

12/21/2009 4:54:43 PM i:\projects\4013179\4013179_0001\drawings\tra\div\typicals\LO-TA-3017.dgn

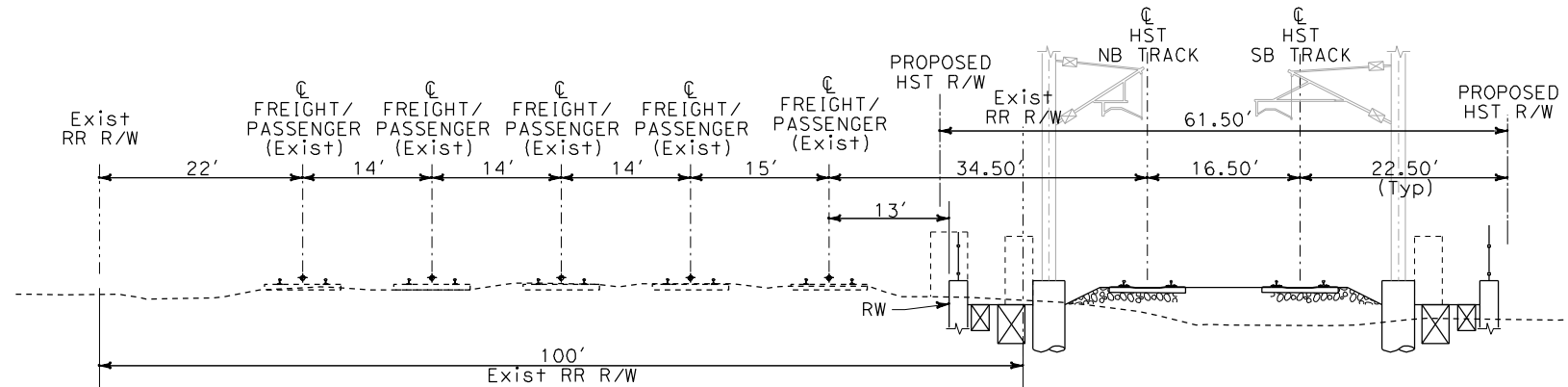
SPERRY



FF
TA1046
RETAINED CUT IN FULLERTON
STA 1182+50



GG
TA1047
AT-GRADE IN FULLERTON
STA 1220+50



HH
TA1049
AT-GRADE IN FULLERTON
STA 1261+50

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY



REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09



STV Incorporated
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
Without ever leaving the ground.

CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES

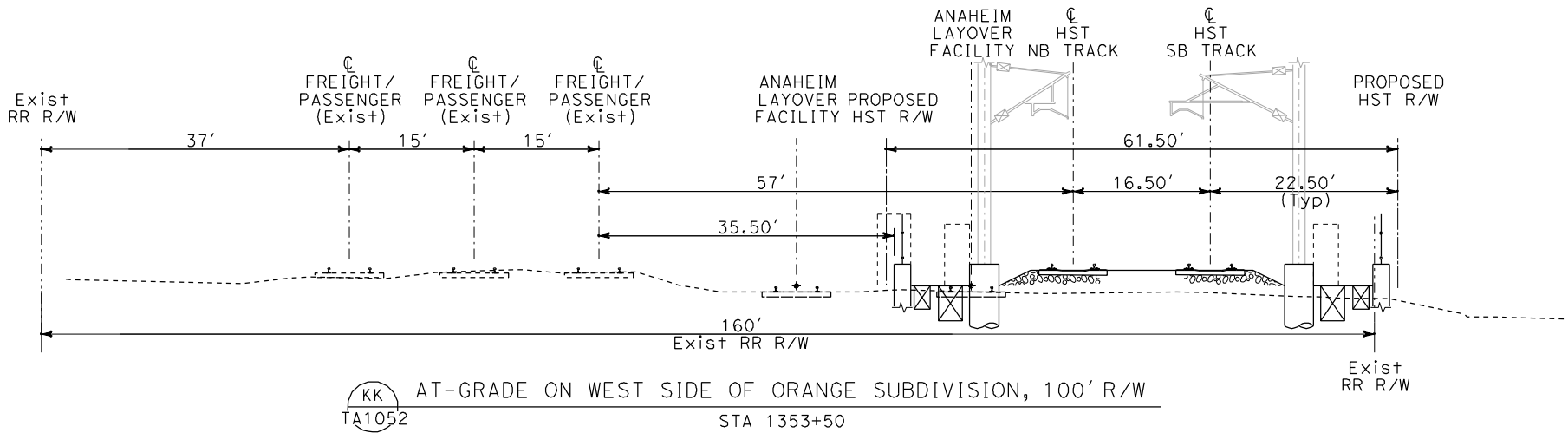
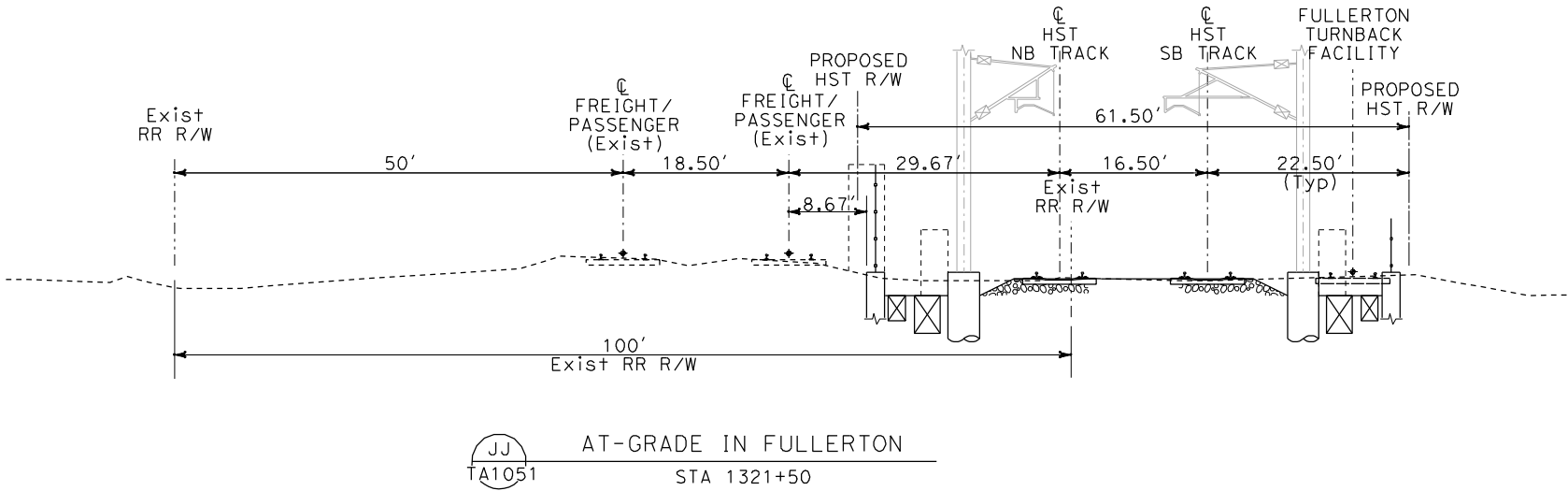
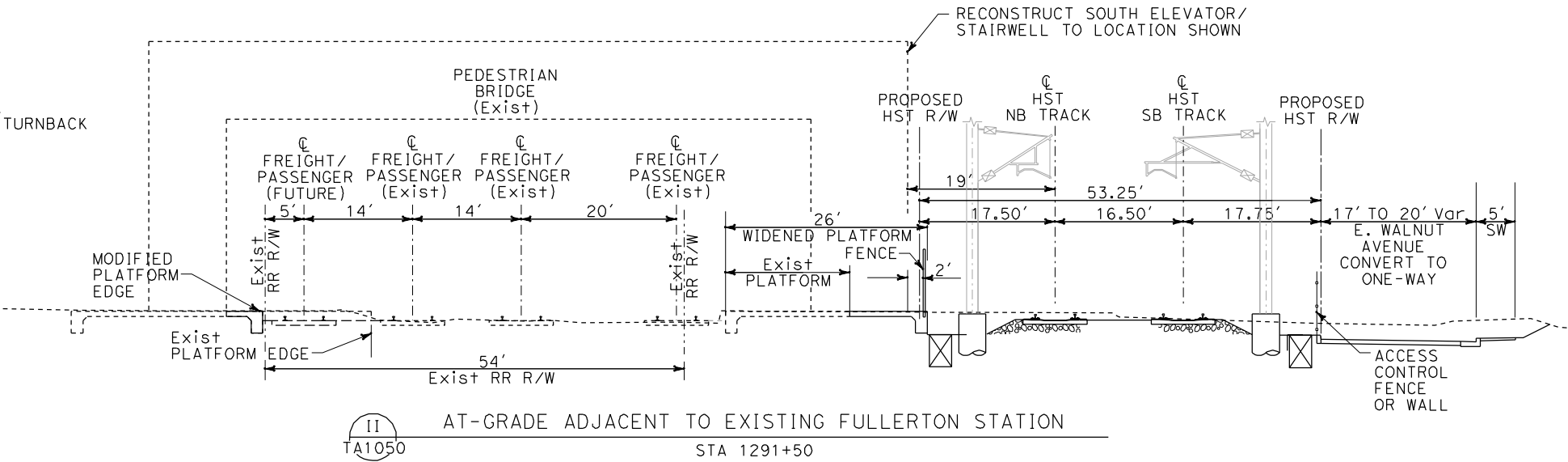
BASELINE ALIGNMENT

CROSS SECTIONS

CONTRACT NO. HSR06-0005
DRAWING NO. TA3017
SCALE 1" = 10'
SHEET NO.

12/21/2009 4:54:47 PM I:\projects\4013179\4013179_0001\Drawings\Track\div\typicals\LO-TA-3018.dgn

NOTE:
1. PROPOSED HST FACILITIES REQUIRE THE REMOVAL OF THE PROPOSED FULLERTON TURNBACK FACILITY AND ANAHEIM LAYOVER YARD.



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY



REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09

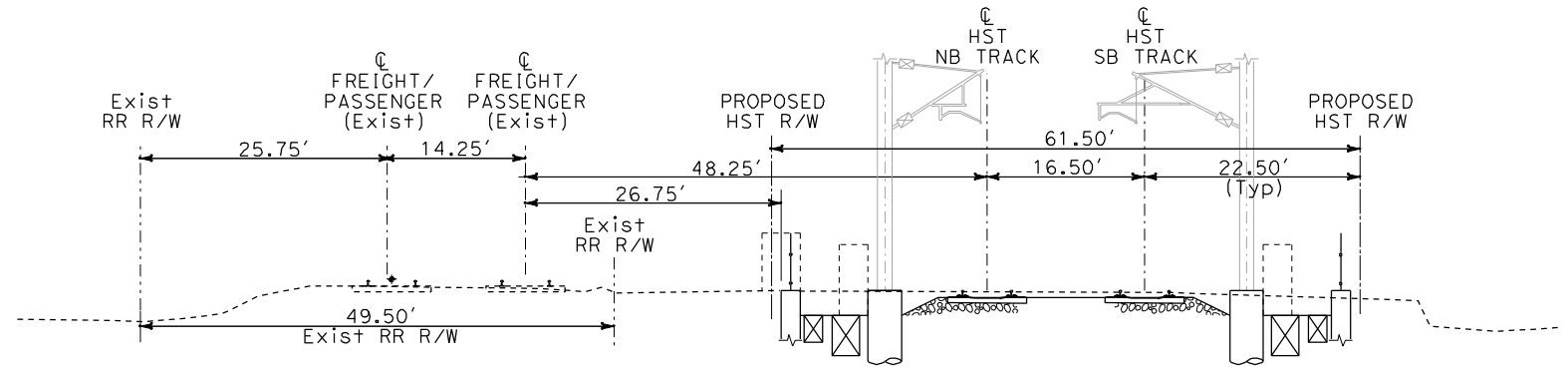


CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT
CROSS SECTIONS

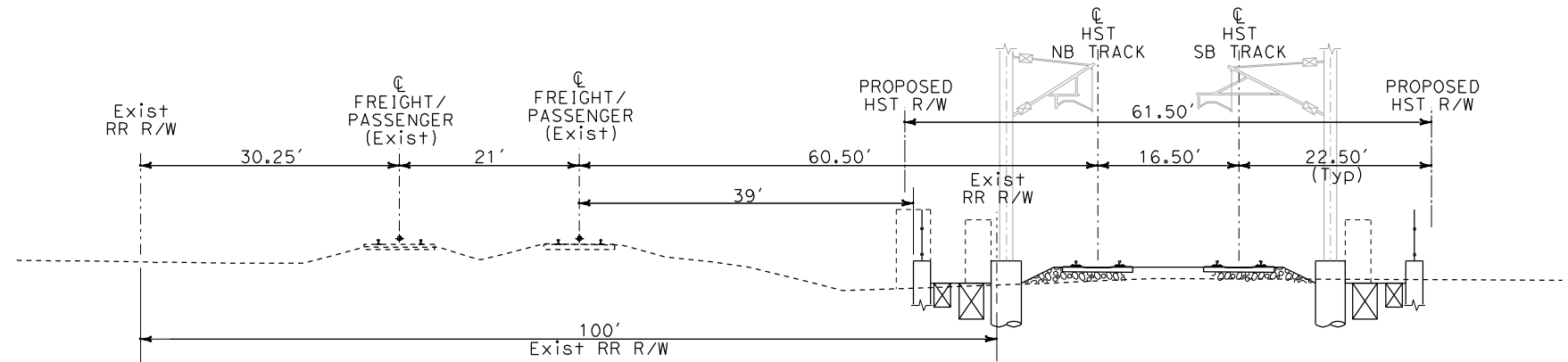
CONTRACT NO. HSR06-0005
DRAWING NO. TA3018
SCALE 1" = 10'
SHEET NO.

12/21/2009 4:54:52 PM I:\projects\4013179\4013179_0001\drawings\tra\div\typical\LO-TA-3019.dgn

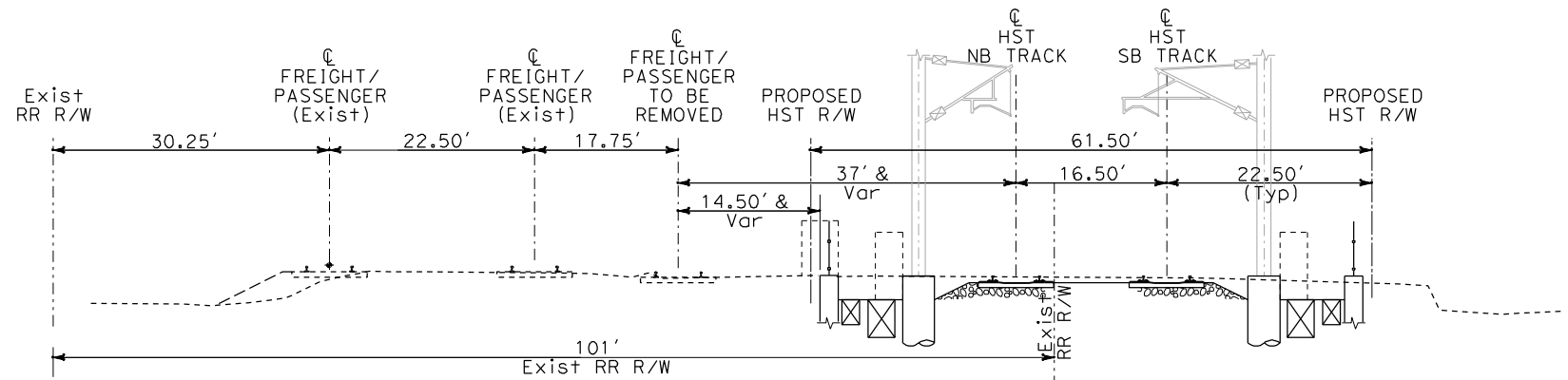
SPERRY



LL AT-GRADE ON WEST SIDE OF ORANGE SUBDIVISION, 50' R/W
TA1054 STA 1403+50



MM AT-GRADE IN ANAHEIM
TA1058 STA 1507+50



NN AT-GRADE ON WEST SIDE OF ORANGE SUBDIVISION, 50' R/W
TA1059 STA 1516+50

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY



REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09



CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT
CROSS SECTIONS

CONTRACT NO. HSR06-0005
DRAWING NO. TA3019
SCALE 1" = 10'
SHEET NO.


12/21/2009 4:54:57 PM i:\projects\4013179\4013179_0001\drawings\tra\div\typicals\LO-TA-3020.dgn

SPERRY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY	K. MCCULLOUGH
DRAWN BY	K. MCCULLOUGH
CHECKED BY	A. SOKOL
IN CHARGE	D. THOMSON
DATE	12-22-09

--	--



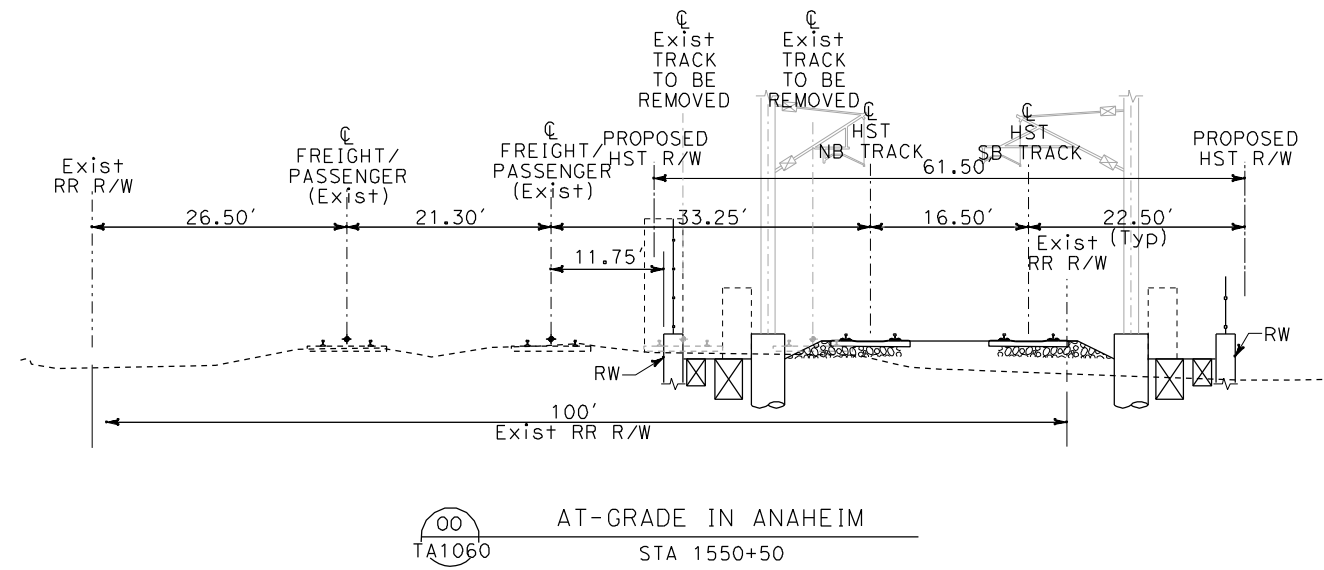
STV Incorporated
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
Without ever leaving the ground.

CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES
BASELINE ALIGNMENT
CROSS SECTIONS

CONTRACT NO.	HSR06-0005
DRAWING NO.	TA3020
SCALE	1" = 10'
SHEET NO.	



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY



12/21/2009 5:42:46 PM i:\projects\4013179\4013179_0001\Drawings\Track\Plan-Profile\LO-TJ-1011.dgn

sperrykm

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09



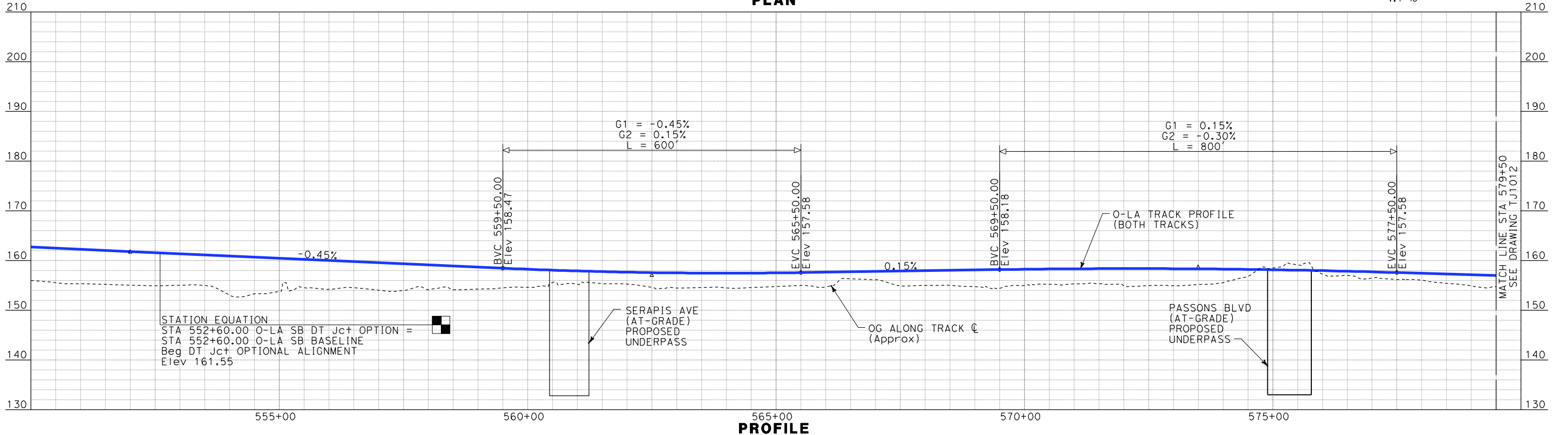
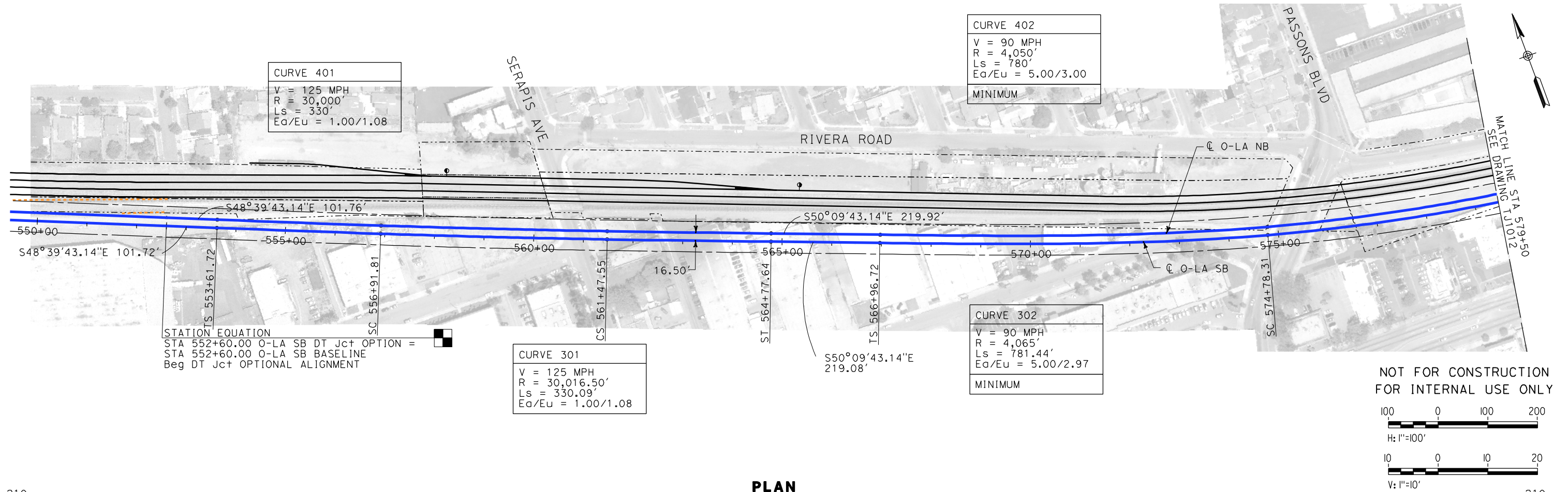
STV Incorporated
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
Without ever leaving the ground.

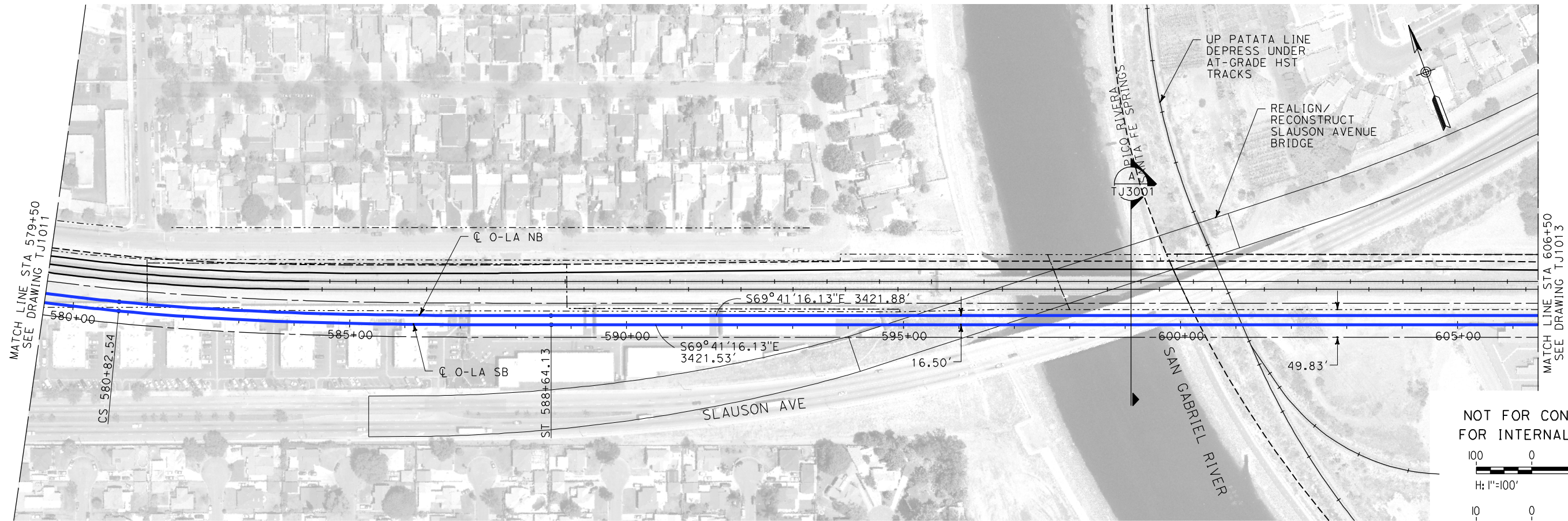
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**
NORWALK BLVD TO SERAPIS AVE
OPTION - AT-GRADE
PLAN AND PROFILE
STA 552+60 TO STA 579+50

CONTRACT NO. HSR06-0005
DRAWING NO. TJ1011
SCALE AS SHOWN
SHEET NO.



12/21/2009 5:43:08 PM i:\projects\4013179\4013179_0001\Drawings\Traction\Plan-Profile\LO-TJ-1012.dgn

sperrykm

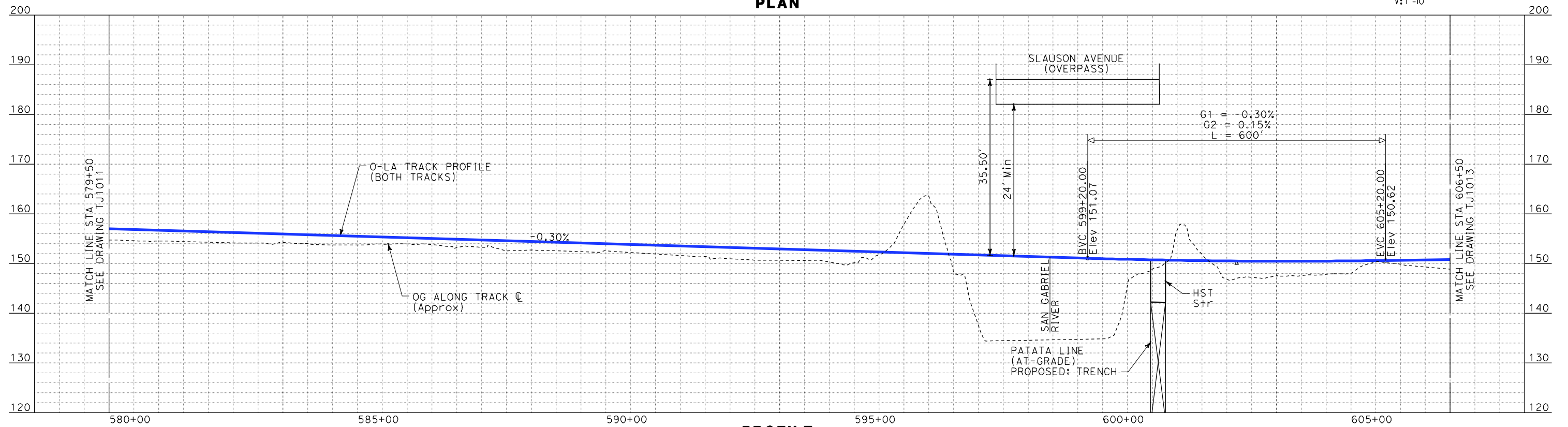


NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

100 0 100 200
H: 1"=100'

10 0 10 20
V: 1"=10'

PLAN



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09



STV Incorporated
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



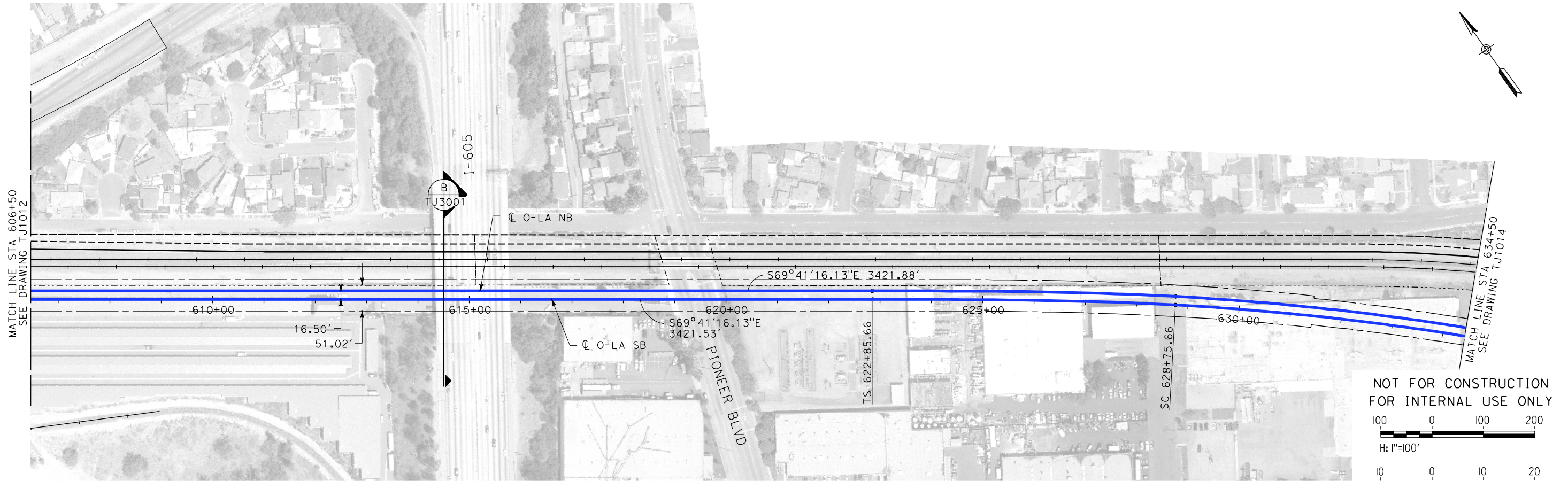
CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
Without ever leaving the ground.

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**
NORWALK BLVD TO SERAPIS AVE
OPTION - AT-GRADE
PLAN AND PROFILE
STA 579+50 TO STA 606+50

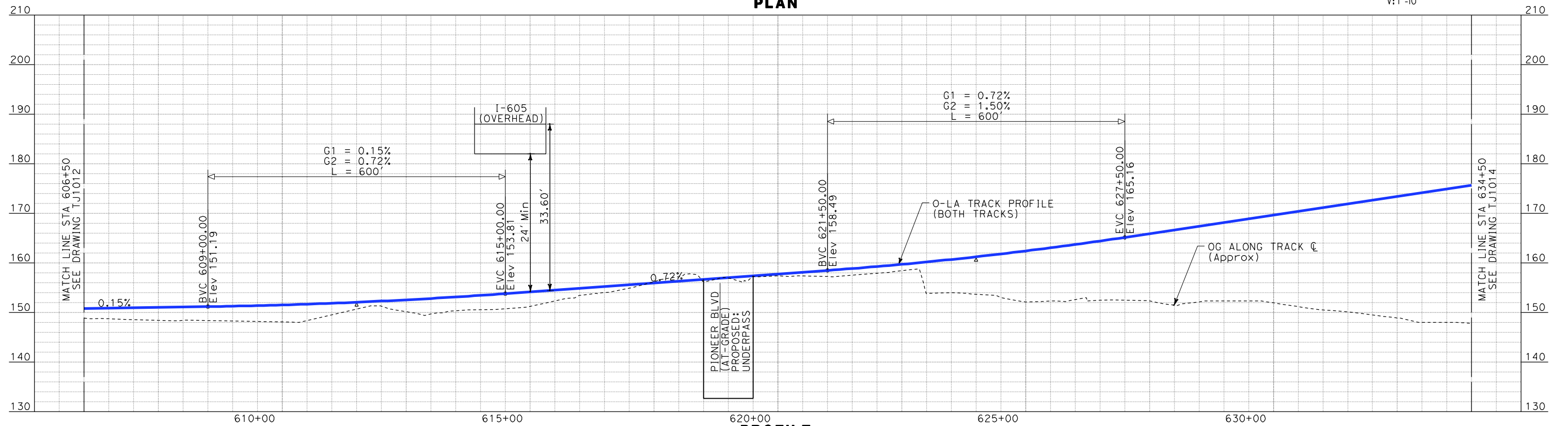
CONTRACT NO. HSR06-0005
DRAWING NO. TJ1012
SCALE AS SHOWN
SHEET NO.

12/21/2009 5:43:25 PM i:\projects\4013179\4013179_0001\Drawings\Track\Plan-Profile\LO-TJ-1013.dgn

sperrykm



PLAN



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09



STV Incorporated
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
Without ever leaving the ground.

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**
NORWALK BLVD TO SERAPIS AVE
OPTION - AT-GRADE
PLAN AND PROFILE
STA 606+50 TO STA 634+50

CONTRACT NO. HSR06-0005
DRAWING NO. TJ1013
SCALE AS SHOWN
SHEET NO.

12/21/2009 5:43:41 PM i:\projects\4013179\4013179_0001\Drawings\Traction\Plan-Profile\LO-TJ-1014.dgn

sperrykm

REV	DATE	BY	SUB	APP	DESCRIPTION

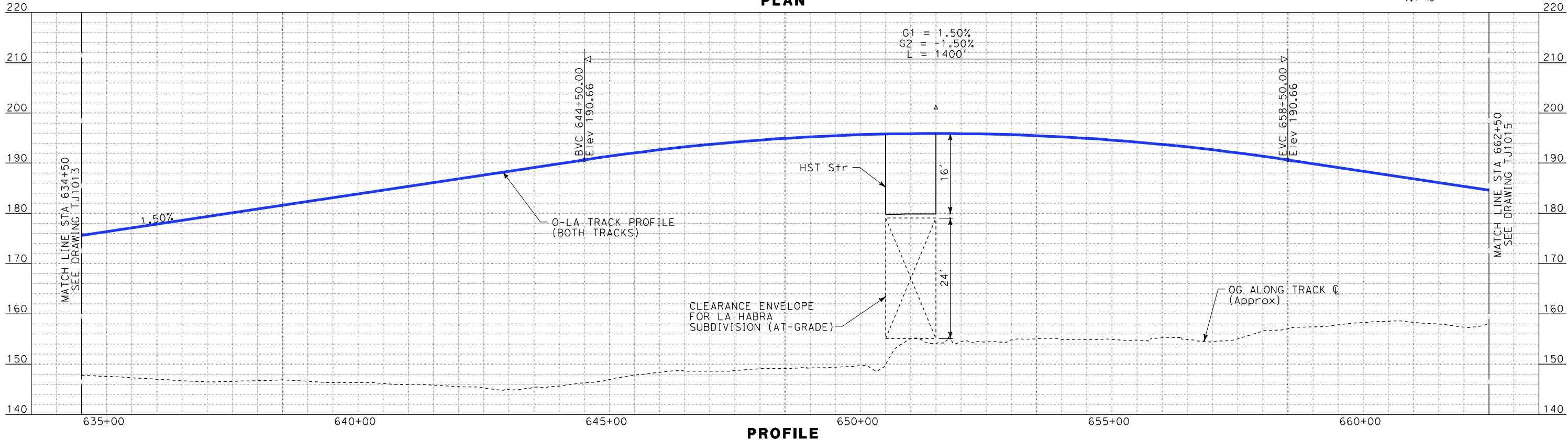
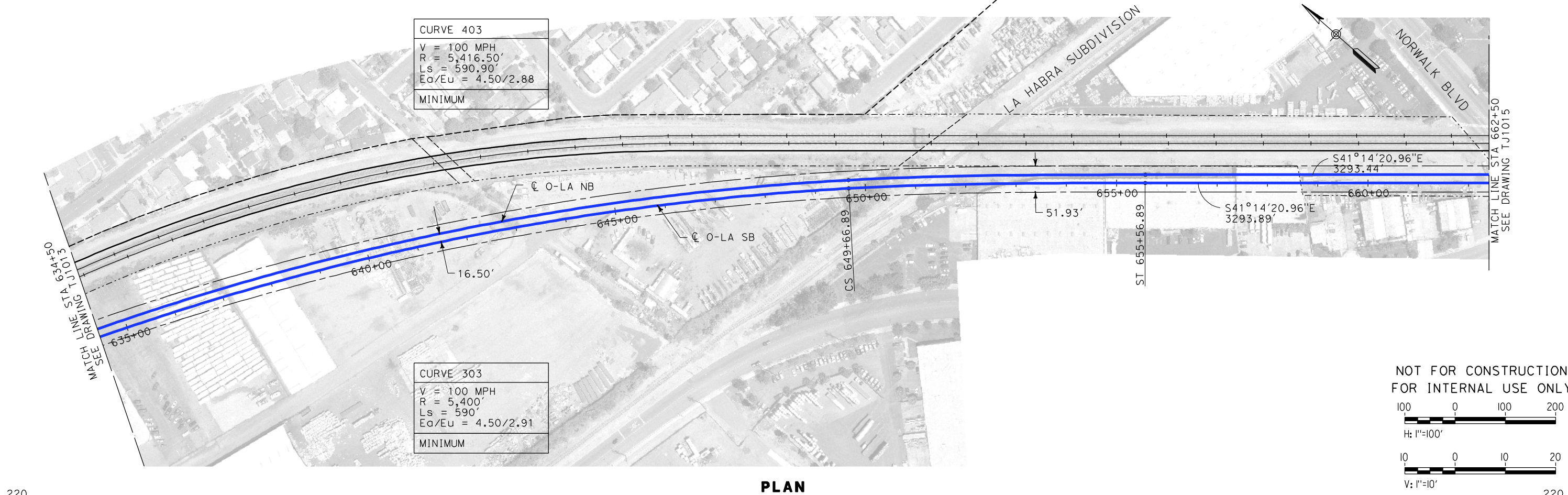
DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09

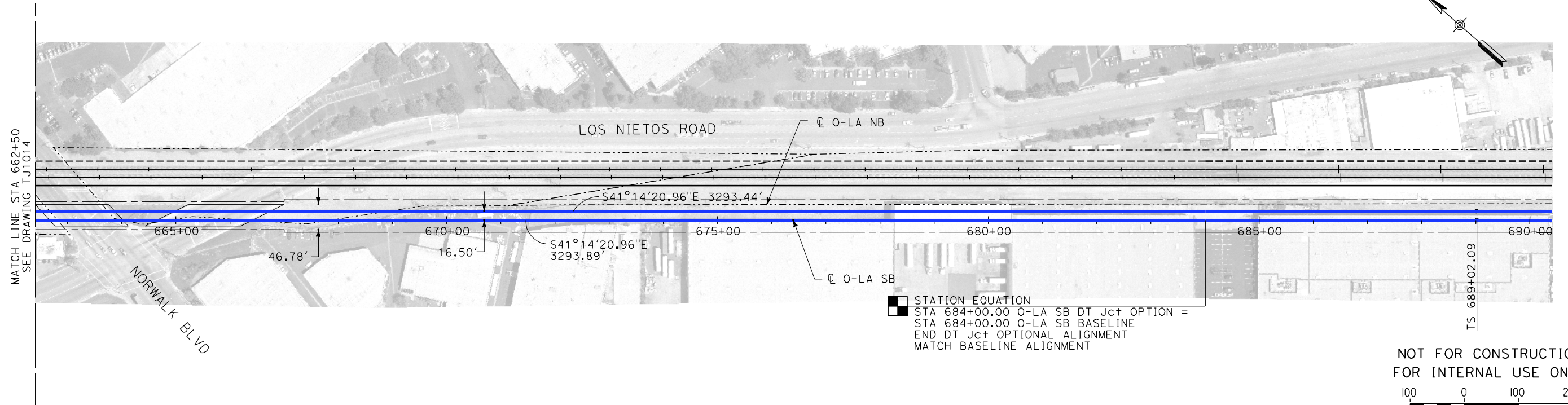


CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
Without ever leaving the ground.

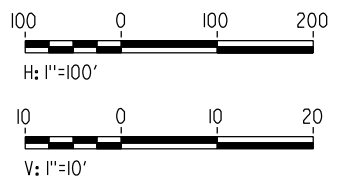
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**
NORWALK BLVD TO SERAPIS AVE
OPTION - AT-GRADE
PLAN AND PROFILE
STA 634+50 TO STA 662+50

CONTRACT NO. HSR06-0005
DRAWING NO. TJ1014
SCALE AS SHOWN
SHEET NO.

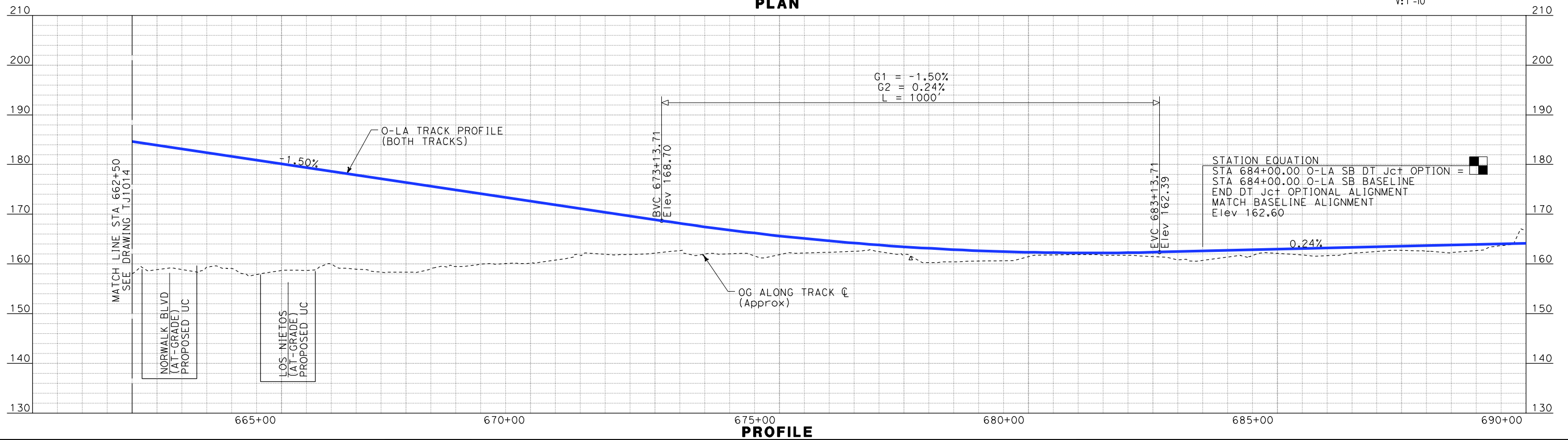




NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY



PLAN



PROFILE

DESIGNED BY
K. MCCULLOUGH

DRAWN BY
K. MCCULLOUGH

CHECKED BY
A. SOKOL

IN CHARGE
D. THOMSON

DATE
12-22-09



STV Incorporated
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



CALIFORNIA HIGH-SPEED RAIL AUTHORITY

FLY CALIFORNIA
Without ever leaving the ground.

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**

NORWALK BLVD TO SERAPIS AVE
OPTION - AT-GRADE
PLAN AND PROFILE
STA 662+50 TO STA 684+00

CONTRACT NO.
HSR06-0005

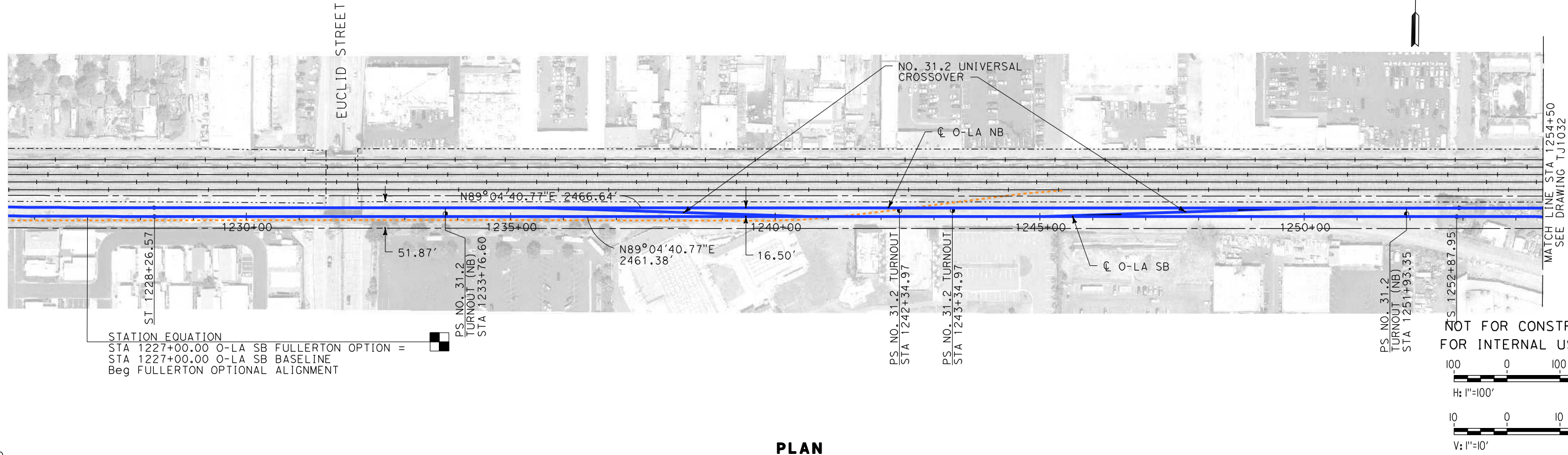
DRAWING NO.
TJ1015

SCALE
AS SHOWN

SHEET NO.

12/21/2009 5:44:12 PM i:\projects\4013179\4013179_0001\Drawings\Traction\Plan-Profile\LO-TJ-1031.dgn

SPERRY



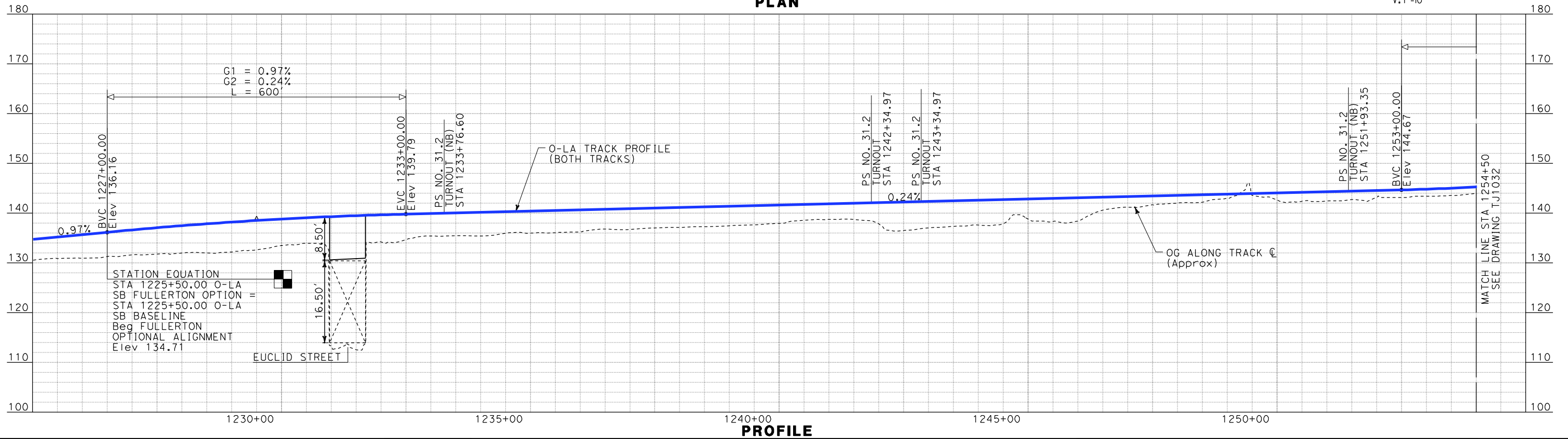
STATION EQUATION
STA 1227+00.00 O-LA SB FULLERTON OPTION =
STA 1227+00.00 O-LA SB BASELINE
Beg FULLERTON OPTIONAL ALIGNMENT

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

100 0 100 200
H: 1"=100'

10 0 10 20
V: 1"=10'

PLAN



STATION EQUATION
STA 1225+50.00 O-LA
SB FULLERTON OPTION =
STA 1225+50.00 O-LA
SB BASELINE
Beg FULLERTON
OPTIONAL ALIGNMENT
Elev 134.71

MATCH LINE STA 1254+50
SEE DRAWING TJ1032

PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY K. MCCULLOUGH
DRAWN BY K. MCCULLOUGH
CHECKED BY A. SOKOL
IN CHARGE D. THOMSON
DATE 12-22-09



STV Incorporated
ENGINEERS/ARCHITECTS/PLANNERS/CONSTRUCTION MANAGERS
1055 WEST SEVENTH STREET, SUITE 3150
LOS ANGELES, CA 90017-2556



CALIFORNIA HIGH-SPEED RAIL AUTHORITY
FLY CALIFORNIA
Without ever leaving the ground.

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
ORANGE COUNTY TO LOS ANGELES**
FULLERTON OPTION 1
AT-GRADE STATION
PLAN AND PROFILE
STA 1227+00 TO STA 1254+50

CONTRACT NO. HSR06-0005
DRAWING NO. TJ1031
SCALE AS SHOWN
SHEET NO.